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L3 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN,
ACCESSION NUMBER:
DOCUMENT NUMBER:
140:175177
Hethods using 1,3-dialky1-4,5-bis(N-
methylcarbamoyl) imidazolium salts for promoting
healing and reducing inflammation
INVENTOR(S):
Sapromov, Nikolay Sergevich; Plotrovsky, Levon
Borisovich; Gavrovskaya, Luidmila Konstantinovna
Borisovich; Gavrovskaya, Luidmila Konstantinovna
Borisovich; Gavrovskaya, Luidmila Konstantinovna
Borisovich; Gavrovskaya, Luidmila Konstantinovna
PATENT ASSIGNEE(S):
Biodiem Limited, Australia
POT LIN Appl. 110 pp.
CODEN: PIXXD2
PATENT INFORMATION:

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L3 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)

CM 1

CRN 657349-35-4

CMF C10 H17 N4 02

MeNH-C

MeNH-C

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

CM 2

CRN 3198-32-1

CMF C6 H5 03 S
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ANSWER 1 OF 1 REGISTRY COPYRIGHT 2007 ACS ON STN

RN 657349-36-5 REGISTRY
ED Entered STN: 03 Mar 2004

1 HI-Inidazolium, 1-ethyl-3-methyl-4,5-bis[(methylamino)carbonyl]-,
benzenesulfonate (9c1) (CA INDEX NAME)

FC 10 H17 N4 02 . C6 H5 03 S

RCA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

CH 1

CRN 657349-35-4

CHF C10 H17 N4 02

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

CH 2

CRN 3198-32-1

CMP C6 H5 03 S
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1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION NUMBER: 2004:120833 CAPLUS DOCUMENT NUMBER: 140:175177 140:175177
Methods using 1,3-dialkyl-4,5-bis(N-methylcarbamoyl)imidazolium salts for promoting healing and reducing inflammation
Sapronov, Nikolay Sergeevich: Piotrovsky, Levon Borisovich: Gavrovskaya, Luidmila Konstantinovna Biodiem Limited, Australia
PCT Int. Appl., 110 pp.
CODEN: PIXXD2
Patent TITLE: INVENTOR (S): PATENT ASSIGNEE(S): SOURCE: DOCUMENT TYPE: English FAMILY ACC. NUM. COUNT: PATENT INFORMATION: APPLICATION NO. PATENT NO. KIND DATE DATE PATENT NO. KIND DATE APPLICATION NO. DATE

WO 2004013108 A1 20040212 WO 2003-AUS72 20030731

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, RR, HU, ID, IL, IN, 1S, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, NA, MD, MG, MK, NN, MW, MK, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TT, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: GH, GR, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AA, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FP, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, SR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

CA 2494408 A1 20040223 A1 2003-2484408 20030731

RI AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, RIS, ST, LT, LV, FI, RO, MC, CY, AL, TR, BG, CZ, EE, HU, SK, US 2005135567 A1 20060622 US 2005-519645, A 20050922

PRIORITY APPLN. INFO.: WO 2003-AU972 W 20030731 OTHER SOURCE(S): MARPAT 140:175177

AB The invention discloses methods for promoting healing and reducing inflammation, and compns. therefore. In particular, the invention inflammation, and compns. therefore. In particular, the invention relates to the use of 1,3-dislkyl-4,5-bis(N-methylcarbamoyl)imidazolium salts to promote wound healing and to reduce inflammation. Novel compds. and compns. are also provided. In one preferred embodiment, the invention provides a method of treatment of myocardial infarction.

IT 657349-34-9 657349-36-9 657349-38-7P
657349-34-9 F 657349-342-3P
RI: ADV (Adverse effect, including toxicity); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (dislkyl-bis(N-methylcarbamoyl)imidazolium salts for promoting healing and reducing inflammation)
RN 657349-34-3 CAPUS
CN 1H-Imidazolium, 1,3-dimethyl-4,5-bis(methylamino)carbonyl)-, L3 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE CRN 3198-32-1 CMF C6 H5 O3 S 657349-38-7 CAPLUS 1H-Imidazolium, 1,3-diethyl-4,5-bis{(methylamino)carbonyl)-, benzenesulfonate (9CI) (CA INDEX NAME) CM 1 CRN 657349-37-6 CMF C11 H19 N4 O2 ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE CM 2 657349-39-8 CAPLUS
1H-Imidazolium, 1-ethyl-3-methyl-4,5-bis{(methylamino)carbonyl]-,

(9CI) (CA INDEX NAME)

Karen Cheng

NHMe ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE CRN 3198-32-1 CMF C6 H5 O3 S 657349-36-5 CAPLUS
INTIMIGAZOLIUM, 1-ethyl-3-methyl-4,5-bis{(methylamino)carbonyl}-,
benzeneaulfonate (9CI) (CA INDEX NAME) CRN 657349-35-4 CMF C10 H17 N4 O2 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) CRN 657349-35-4 CMF C10 H17 N4 O2 ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE CM 2 CRN 766-76-7 CMF C7 H5 O2 657349-42-3 CAPLUS 1H-Imidazolium, 1-ethyl-3-methyl-4,5-bis[(methylamino)carbonyl]-, chloride (9CI) (CA INDEX NAME)

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

1T 657349-40-1P 657349-41-2P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES

ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN benzenesulfonate (9CI) (CA INDEX NAME)

CH 1

CRN 657349-33-2 CMF C9 H15 N4 O2

Me Me Me MeNH-C N

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

CM 2 CRN 63-36-5 CMF C7 H5 03

CO2-

RN 657349-41-2 CAPLUS
CN 1H-Imidazolium, 1-ethyl-3-methyl-4,5-bis[(methylamino)carbonyl]-, salt with 2,5-dihydroxybenzoic acid (1:1) (9CI) (CA INDEX NAME)

CRN 657349-35-4 CMF C10 H17 N4 O2 L3 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

CM 2 CRN 490-80-2 CMF C7 H5 O4

L11 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION NUMBER: 2004:120833 CAPLUS DOCUMENT NUMBER: 140:175177 140:175177
Methods using 1,3-dialkyl-4,5-bis(N-methylcarbamoyl) imidarolium salts for promoting healing and reducing inflammation
Sapronov, Nikolay Sergeevich; Piotrovsky, Levon Borisovich; Gavrovskya, Luidmila Konstantinovna Biodiem Limited, Australia
PCT Int. Appl., 110 pp.
CODEN: PIXXD2
Patent DOCUMENT NUMBER: TITLE: СН 1 INVENTOR(S): PATENT ASSIGNEE(S): SOURCE: DOCUMENT TYPE: Patent English FAMILY ACC. NUM. COUNT: PATENT INFORMATION: - NHMe APPLICATION NO. PATENT NO. KIND DATE DATE W0 2004013108 A1 20040212 W0 2003-AU972 20030731

W: AR, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EZ, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, ND, MG, MK, MN, MM, MX, MZ, IN, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: GH, GM, KE, LS, MM, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, CN, GG, GW, HL, MR, NE, SN, TD, TG

CA 2494408 A1 20040223 A1 2003-2494408 2030731

AU 2003281848 A1 20040222 CA 2003-2498408 2030731

R: AT, BE, CH, DE, DK, ES, FR, CB, GR, IT, LI, LU, NL, SE, MC, PT, TS, SI, LT, LV, FI, RO, MZ, CY, AL, TR, BG, CZ, EE, HU, SK

US 2006133587 A1 20060622 US 2005-518645 20050922

PRIORITY APPLN. INFO:

W 20030731 WO 2003-AU972 WO 2004013108 20040212 20030731 A1 CM 2 WO 2003-BU972 W 20030731 OTHER SOURCE(S): MARPAT 140:175177

AB The invention discloses methods for promoting healing and reducing inflammation, and compns. therefore. In particular, the invention inflammation, and compns. therefore. In particular, the invention relates to the use of 1,3-dialkyl-4,5-bis(N-methylcarbamoyl)imidazolium salts to promote wound healing and to reduce inflammation. Novel compds. and compns. are also provided. In one preferred embodiment, the invention provides a method of treatment of myocardial infarction.

IT 657349-34-8 657349-36-59 657349-38-7P 657349-39-89 657349-29-2P RL: ADV (Adverse effect, including toxicity); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (dialkyl-bis(N-methylcarbamoyl)imidazolium salts for promoting healing and reducing inflammation)

RN 657349-34-3 CAPLUS CM L11 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE CM 1 657349-38-7 CAPLUS
1H-Imidazolium, 1,3-diethyl-4,5-bis[(methylamino)carbonyl]-,
benzenesulfonate (9CI) (CA INDEX NAME) CM 2 CRN 657349-37-6 CMF C11 H19 N4 O2 657349-42-3 CAPLUS
1H-Imidazolium, 1-ethyl-3-methyl-4,5-bis[(methylamino)carbonyl)-, ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE chloride (9CI) (CA INDEX NAME) CM 2 CRN 3198-32-1 CMF C6 H5 O3 S

L11 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
CN | 1H-Imidazolium, 1,3-dimethyl-4,5-bis[(methylamino)carbonyl]-,
benzenesulfonate (9CI) (CA INDEX NAME) CRN 657349-33-2 CMF C9 H15 N4 O2 ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE 657349-36-5 CAPLUS
1H-Imidazolium, 1-ethyl-3-methyl-4,5-bis[(methylamino)carbonyl]-,
benzenesulfonate (9CI) (CA INDEX NAME) CRN 657349-35-4 CMF C10 H17 N4 O2 L11 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) 657349-39-8 CAPLUS 1H-Imidazolium, 1-ethyl-3-methyl-4,5-bis[(methylamino)carbonyl]-, (9CI) (CA INDEX NAME) 657349-35-4 C10 H17 N4 O2 ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE CRN 766-76-7 CMF C7 H5 02

ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
140:175177
Methods using 1,3-dialkyl
-4,5-bis(N-methylcarbamoyl)imidazolium salts for
promoting healing and reducing inflammation
Sapronov, Nikolay Sergeevich; Piotrovsky, Levon
Borisovich; Cavrovskaye, Luidmila Konstantinovna
Blodiem Limited, Australia
PCT Int. Appl., 110 pp.
CODEN: PIXXD2
PATENT INFORMATION:
English
PAMILU ACC. NUM. COUNT:
PATENT INFORMATION: ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) lH-Imidazolium, 1,3-dimethyl-4,5-bis[(methylamino)carbonyl]-, benzenesulfonate (9C1) (CA INDEX NAME) CRN 657349-33-2 CMF C9 H15 N4 O2 LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: DATE PATENT NO. KIND APPLICATION NO. ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE CM 2 w 20030731 657349-36-5 CAPLUS
1H-Imidazolium, 1-ethyl-3-methyl-4,5-bis[(methylamino)carbonyl]-,
benzensulfonate (9CI) (CA INDEX NAME) WO 2003-811972 OTHER SOURCE(S): MARPAT 140:175177

AB The invention discloses methods for promoting healing and reducing inflammation, and compns. therefore. In particular, the invention inflammation, and compns. therefore. In particular, the invention relates to the use of 1,3-dialkyl -4,5-bis(N-methylcarbamoyl)imidazolium salts to promote wound healing and to reduce inflammation. Novel compds. and compns. are also provided. In one preferred embodiment, the invention provides a method of treatment of myocardial infarction.

IT 657349-34-3P 657349-36-5P 657349-38-7P 657349-38-98 67349-39-8P S7349-9-2P RL: ADV (Adverse effect, including toxicity); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (dialkyl-bis(N-methylcarbamoyl)imidazolium salts for promoting healing and reducing inflammation)

RN 657349-34-3 CAPLUS СМ CRN 657349-35-4 CMF C10 H17 N4 O2 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN 657349-39-8 CAPLUS 1H-Imidazolium, 1-ethyl-3-methyl-4,5-bis[(methylamino)carbonyl]-, ate (9CI) (CA INDEX NAME) ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE CM 2 CM 1 CRN 657349-35-4 CMF C10 H17 N4 O2 657349-38-7 CAPLUS
1H-Imidazolium, 1,3-diethyl-4,5-bis[(methylamino)carbonyl]-,
benzenesulfonate (9CI) (CA INDEX NAME) ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE CM 2 766-76-7 C7 H5 O2 RN 65734-CN 1H-Imidazolium, -chloride (9CI) (CA INDEX NAME) 657349-42-3 CAPLUS 1H-Imidazolium, 1-ethyl-3-methyl-4,5-bis[(methylamino)carbonyl)-, ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE CH 2 CRN 3198-32-1 CMF C6 H5 O3 S

Karen Cheng

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L7 ANSWER 1 OF 1
ACCESSION NUMBER:
DOCUMENT NUMBER:
140:175177
Methods using 1,3-dialkyl-4,5-bis(N-methylcarbamoyl)
imidazolium salts for promoting
healing and reducing inflammation
BOISTER ASSIGNEE(S):
SAPRONO, Nikolay Sergeevich; Piotrovsky, Levon
BOISTER ASSIGNEE(S):
BOURCE:
PATENT ASSIGNEE(S):
BOUNCE:
POCUMENT TYPE:
LANGUAGE:

CAPLUS COPYRIGHT 2007 ACS on STN

indexcessor
Methods using 1,3-dialkyl-4,5-bis(N-methylcarbamoyl)
imidazolium salts for promoting
healing and reducing inflammation
BOISTER SAPRONOV, Nikolay Sergeevich; Piotrovsky, Levon
BOISTER ASSIGNEE(S):
BOISTER ASSIGNEE(S):
BOISTER ASSIGNEE SAPENDE
PATENT ASSIGNEE SAPENDE
BOCUMENT TYPE:
LANGUAGE:

English
    DOCUMENT TYPE:
                                                                                                      English
   FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                      PATENT NO.
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PATENT NO. KIND DATE APPLICATION NO. DATE

***O 2004013108**
***NE* AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GB, EG, CH, CN, CM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, ND, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TM, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: GH, GM, KE, LS, WM, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, LC, LK, LR, BF, BJ, CF, CG, CI, CM, GA, GM, GO, GW, ML, MR, NC, SD, KS, KF, KF, BF, BJ, CF, CG, CI, CM, GA, GM, GO, GW, ML, MR, NE, SN, TD, TG

CA 2494408**
Al 20040223 Au 2003-2494408**
20030731

R AU 2013221848**
Al 20040212 CA 2003-249408**
20030731

R AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, RT, ET, LT, LV, FT, RO, GR, TT, LT, LV, KS, MC, CT, AL, TR, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, RT, ET, LT, LV, FT, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK, US 2006135587**
Al 20060622**

**WO 2003-240365**
A 200205723
                                                                                                                                                                                                                                                                  w 20030731
                                                                                                                                                                                WO 2003-AU972
   OTHER SOURCE(s): MARPAT 140:175177

AB The invention discloses methods for promoting healing and reducing inflammation, and compns. therefore. In particular, the invention
relates
to the use of 1,3-dialkyl-4,5-bis(N-methylcarbamoyl) imidazolium
salts to promote wound healing and to reduce inflammation. Novel
compds. and compns. are also provided. In one preferred embodiment, the
invention provides a method of treatment of myocardial infarction.

15 657349-34-9 657349-36-9 657349-38-7P
657349-39-96 657349-32-3P
RL: ADV (Adverse effect, including toxicity): PAC (Pharmacological
activity): SPN (Synthetic preparation): THU (Therapeutic use): BIOL
(Biological study): PREP (Preparation): USES (Uses)
(dialkyl-bis(N-methylcarbamoyl)imidazolium salts
for promoting healing and reducing inflammation)

RN 657349-34-3 CAPLUS
CN 1H-Imidazolium, 1,3-dimethyl-4,5-bis{(methylamino)carbonyl)-,
    L7 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN
   ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
                       CH 2
                       CRN 3198-32-1
CMF C6 H5 O3 S
                        657349-38-7 CAPLUS
IH-Imidazolium, 1,3-diethyl-4,5-bis[(methylamino)carbonyl]-,
benzenesulfonate (9CI) (CA INDEX NAME)
                       CM 1
                        CRN 657349-37-6
CMF C11 H19 N4 O2
    ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
                        CM 2
                         657349-39-8 CAPLUS 1H-Imidazolium, 1-ethyl-3-methyl-4,5-bis({methylamino}carbonyl}-,
                         ate
(9CI) (CA INDEX NAME)
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ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS ON STN benzenesulfonate (9CI) (CA INDEX NAME) (Continued) CH 1 CRN 657349-33-2 CMF C9 H15 N4 O2 ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE CM 2 CRN 3198-32-1 CMF C6 H5 O3 S 657349-36-5 CAPLUS
IH-Imidazolium, 1-ethyl-3-methyl-4,5-bis[(methylamino)carbonyl]-,
benzenesulfonate (9CI) (CA INDEX NAME) CM 1 CRN 657349-35-4 CMF C10 H17 N4 O2 (Continued) ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN CM 1 ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE CM 2 CRN 766-76-7 CMF C7 H5 02 657349-42-3 CAPLUS 1H-Imidazolium, 1-ethyl-3-methyl-4,5-bis[(methylamino)carbonyl]-, chloride (9CI) (CA INDEX NAME) • c1-

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

IT 657349-40-1P 657349-41-2P

RI: PAC (Pharmacological activity); SPN (Synthetic preparation); THU

(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES

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L9 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2007 ACS ON STN
ACCESSION NUMBER: 2005:409524 CAPLUS
DOCUMENT NUMBER: 142:463438
TITLE: Preparation
                                                                             142:463438
Preparation of phenylamine substituted bicyclic heterocyclic compounds useful as kinase inhibitors Das, Jagabandhu: Hynes, John: Leftheris, Katerins; Lin, Shuqun: Wrobleski, Stephen T.; Wu, Hong Bristol-Myers Squibb Company, USA PCT Int. Appl., 113 pp. CODEN: PIXXD2
Patent
English
INVENTOR (S):
 PATENT ASSIGNEE(S):
SOURCE:
DOCUMENT TYPE:
LANGUAGE:
                                                                             English
 FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                PATENT NO.
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                                                                                                  DATE
                                                                                                                                         APPLICATION NO.
                                                                                                                                                                                                                DATE
                                                                           A1 20050512 W0 2004-U353156 BY, B2, CA, CH, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, HR, HU, ID, ILI, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LT, LU, LV, MA, MD, MG, MK, MA, MM, MX, MZ, NA, NT, CP, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, ST, TR, TT, T2, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZM, KZ, MD, RU, TM, SD, SL, SZ, TZ, UG, ZM, ZW, AW, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, ME,
                WO 2005042537
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W: AE, AG, AL,
CM, CO, CR,
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LK, LR, LS,
NO, NZ, OM,
TJ, TM, TN,
RW: BW, GH, GM,
AZ, BY, KG,
EE, ES, FI,
S1, SK, TR,
SN, TD, TG
US 2005143398
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US 2003-513285P
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P 20031022
 PRIORITY APPLN. INFO.:
OTHER SOURCE(S):
                                                                             MARPAT 142:463438
               ANSWER 1 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN
                                                                                                                                                                                           (Continued)
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THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

L9 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:675729 CAPLUS
DOCUMENT NUMBER: 141:207206
TITLE: Preparation of mercaptoimidazoles as CCR2 receptor antagonists for the treatment of inflammatory disease. Van Lommen, Guy Rosalia Eugeen; Doyon, Julien Georges Pierre-Olivier; Van Wauwe, Jean Pierre Frans; Cools, Marina Lucie Louise; Coesemans, Erwin Janssen Pharmaceutica N.V., Belg.
DOCUMENT TYPE: PCT Int. Appl., 64 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent English
FAMILY ACC. NUM. COUNT: 1971511 TNORMATION:

PA	TENT																
WO	2004	069B	09		A1		2004	0819	,	WO 2	003-	EP10:	30		2	0030	203
	W:	AE,	AG,	AL.	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BY,	ßZ,	CA,	CH,	CN,
		CO.	CR.	cu.	cz.	DE.	DK,	DM.	DZ.	EC.	EE,	ES.	FI,	GB,	GD,	GE,	GH,
							IN,										
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		PI.	PT.	RO.	RU.	SC.	SD,	SE.	SG.	SK.	SL.	TJ.	TM.	TN.	TR.	TT.	TZ.
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		KG	K2.	MD.	BII.	т.т.	TM,	. AT.	BE.	BG.	CH.	CY.	CZ.	DE.	DK.	EE.	ES.
		ET.	FD,	GB,	GD,	WII.	IE,	TT	LU	MC.	NI.	PT.	SE.	ST.	SK.	TR.	BF.
		B.7	CF,	cc,	CT,	CM,	ĠΑ,	GN.	GO,	CW.	MI.	MR.	NE.	SN.	TD.	TG	,
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AU	2003	2100	71		21		2004	0819		AU 2	004-	2100	71			0040	130
CD	2512	100	, ,		21		2004	0019		CA 2	004~	2513	109		- 2	0040	130
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	2004	BE	nc.	nt.	~~	АТ	AU,	B7	88	BB.	BG.	BR.	BW.	BY.	BZ.	CA.	CH.
		cu,	co,	CD,	CII,	~,	DE,	Dr.	DM.	D2,	EC,	EE.	E.C.	F 8	ET,	GB	GD.
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		UE,	un,	un,	IT.	711	LV,	MD,	MD.	MC.	MK,	MN.	MW.	MY.	MZ.	NA.	NT.
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		BG,	CH,	C1,	22,	DE,	SI,	EE,	ED,	er,	P.7	CF,	CC,	ct,	m,	GA,	GN,
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~		15,	51,	ы,	LV,		2006	0200	C1,	CN 2	004-	8000	3283	24,	,	0040	130
Ch	2006	516	90		~		2000	0306		10 2	004-	5017	12		5	0040	130
JE	2000	22162	89		1		2006	0706		JP 2	005-	5445			5	0050	120
US PRIORIT	2006	00382	77.00		AI		2006	0316		U3 4	003-	5010	20		. 2	0030	203
PRIORIT	YAPE	LN.	INFO	• :						WO 2	003-	EPIO	30		M 2	0030	203
										wa 2	002-	FD2A	1038		n 2	0030	203
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											004		7			0040	120
										WU 2	004-	6633	,		~ 4	0040	130

OTHER SOURCE(S): MARPAT 141:207206

Karen Cheng

H2N-

REFERENCE COUNT:

CH- OEt

ANSWER 2 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

The invention relates to mercaptoimidazoles of formula I, N-oxides, pharmaceutically acceptable addition salts, quaternary amines and stereochem. isomeric forms thereof, wherein R1 is H, (cyclo)alkyl, (hetero)aryl; R2 is halo, alkyl(oxy/thio), polyhaloalkyl(oxy), cyanaminocarbonyl, (di)(alkyl)amino, nitro, aryl(oxy); R3 and R4 are H,

aminocarbonyl, (di) (alkyl) amino, nitro, arylloxyl; R3 and R4 are H, Cyano, (hydroxy) alkyl, C(0) CR5, C(0) RR6aR6b, S(0) 2NR6aR6b, C(0) R7, R5 is a defined carbon or N-heterocyclic ester group; R6s, R6b is H, alkyl, (di) (alkyl) amino(alkyl), arylamino; or NR6aR6b is a N-heterocycle; R7 is H, alk(en/yn)yl, aryl, certain substituted alkyls; n is 1-5, etc., with some limitations. The compds. have been synthesized as CR2 receptor antagonists and found useful for the treatment and prevention of diseases, such as inflammation, which are mediated through activation of the CCR2 receptor, perticularly CCR2B receptor. The invention also relates to processes for preparing the compds. and pharmaceutical compns. comprising them. Thus, compound II was prepared from 1-{4-fluoro-3-(trifluoromethyl)phenyl|-1-propanone via oxime formation, reduction, N-alkylation with Me bromacetate, formylation and finally cyclocondensation with (CO2Me)2 and KSCN. The synthesized compds. showed inhibition of MCP-1 induced Ca-flux in human THP-1 cells with pICSO 5.6-8.2 (pICSO = -log ICSO).

IT 742108-15-2P 742108-27-6P 742108-28-7P 742108-40-3P RL: PAC (Pharmacological activity); SPN (Synthetic preparation); TMU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(receptor antagonist; preparation of mercaptoimidazoles as CCR2 receptor

(receptor antagonist; preparation of mercaptoimidazole:
receptor
antagonists for the treatment of inflammatory disease)
RN 742108-15-2 CAPLUS
CN 1H-Imidazole-4,5-dicarboxamide,
1-[(1R)-1-(3,4-dichlorophenyl)propyl)-2,3dihydro-2-thioxo- {9CI} (CA INDEX NAME)

Absolute stereochemistry.

ANSWER 2 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) 1H-Imidazole-4,5-dicarboxamide, 1-[1-(3,4-dichlorophenyl)propyl]-2,3-dihydro-2-thioxo- (9CI) (CA INDEX NAME)

ANSWER 2 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

742108-27-6 , CAPLUS 1H-Imidazole-4,5-dicarboxamide, 1-{1-(3,4-dichlorophenyl)butyl}-2,3-dihydro-N,N'-dimethyl-2-thioxo- (9CI) (CA INDEX NAME)

742108-28-7 CAPLUS
1H-Tmidazole-4, 3-dicarboxamide, 1-[1-(3,4-dibromophenyl)propyl]-2,3-dibydro-2-thioxo-(9CI) (CA INDEX NAME)

L9 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 2004:120833 CAPLUS DOCUMENT NUMBER: 140:175177

DOCUMENT NUMBER: TITLE:

140:175.17

Methods using 1,3-dialkyl-4,5-bis(Nmethylcarbamoyl)imidazolium salts for
promoting healing and reducing inflammation
Sapranov, Nikolay Sergeevich; Piotrovsky, Levon
Borisovich: Gavrovskaya, Luidmila Konstantinovna
Biodiem Limited, Australia
PCT Int. Appl., 110 pp.
CODEN: PIXXDZ

Patent INVENTOR(S):

PATENT ASSIGNEE(S): SOURCE:

Patent

DOCUMENT TYPE: LANGUAGE: English

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

	ATENT															ATE	
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w	2004	0131	08		A1		2004	0212		WO 2	003-	AU97	2		2	0030	731
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		co.	CR.	cu.	CŽ.	DE.	DK,	DM.	DZ.	EC.	EE.	ES.	FI.	GB.	GD,	GE,	GH,
		GM,	HB	HU.	TD.	TI.	IN,	TS.	JP.	KE.	KG.	KP.	KR.	KZ.	LC.	LK.	LR.
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C	A 2494	408			A1		2004	0212		CA 2	003-	2494	408		2	0030	731
	U 2003																
E	P 1539	707			A1		2005	0615		EP 2	003-	7398	80		2	0030	731
	R:	AT.	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,
		IE.	SI.	LT.	LV.	FI.	RO,	MK,	CY,	AL,	TR,	BG,	CZ,	EE,	HU,	sĸ	
U	S 2006																
PRIORI										RU 2							
										WO 2	003-	AU97	2		W 2	0030	731

OTHER SOURCE(S):

R SOURCE(S): MARPAT 140:175177
The invention discloses methods for promoting healing and reducing inflammation, and compns. therefore. In particular, the invention

inflammation, and compns. therefore. In particular, the invention tes
to the use of 1,3-dialky1-4,5-bis(N-methylcarbamoyl) imidazolium
salts to promote wound healing and to reduce inflammation. Novel
compds. and compns. are also provided. In one preferred embodiment, the
invention provides a method of treatment of myocardial infarction.
657349-34-3P 657349-36-5P 657349-38-7P
657349-34-3P 657349-42-3P
RL: ADV (Adverse effect, including toxicity); PAC (Pharmacological
activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL
(Biological study); PREP (Preparation); USES (Uses)
(dialky1-bis(N-methylcarbamoyl)imidazolium salts for
promoting healing and reducting inflammation)
657349-34-3 CAPLUS
IN-Imidazolium, 1,3-dimethyl-4,5-bis((methylamino)carbonyl)-,
benzenesulfonate (SCI) (CA INDEX NAME)

CM 2 CRN 490-80-2 CMF C7 H5 O4

64-99-3 880-90-0

RL: RCT (Reactant); RACT (Reactant or reagent)
(dialkyl-bis(N-methylcarbamoyl)imidazolium salts for
promoting healing and reducing inflammation)
64-99-3 CAPLUS

1H-Imidazole-4,5-dicarboxamide, 1-ethyl-N,N'-dimethyl- (9CI) (CA INDEX

880-90-0 CAPLUS
1H-Imidazole-4,5-dicarboxamide, N,N',1-trimethyl- (9CI) (CA INDEX NAME)

L9 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:202639 CAPLUS

TITLE: 138:221601
Preparation of pyrrolopyrimidinecarbonitriles as inhibitors of cathepsin K
Betachart, Claudia: Hayakawa, Kenji: Irie, Osamu; Sakaki, Junichi: Iwasaki, Genji: Lattmann, Rene; Missbach, Martin: Teno, Naoki

PATENT ASSIGNEE(S): Novartis A.-G., Switz.; Novartis Pharma G.m.b.H.
POT Int. Appl., 207 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. MUM. COUNT: 1 LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

	ENT				KIN	D	DATE			APPL	ICAT	ION	ю.		ſ	ATE	
WO	2003																
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		co,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EΕ,	ES,	FI,	GB,	GD,	GE,	GH,
		HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	ΚZ,	LC,	LK,	LT,	w,
		LV,	MA,	MD,	MK,	MN,	MΧ,	NO,	NZ,	OM,	₽H,	PL,	PΤ,	RO,	RU,	5E,	\$G,
		SI,	SK,	TJ,	TM,	TN,	TR,	TT,	UA,	US,	UZ,	·vc,	٧N,	Yυ,	ZA,	ZW	
	RW:	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,	FI,	FR,	GB,	GR,	IE,	IT,
		LU,	MC,	NL,	PT,	SE,	SK,	TR									
CA	2458	684			A1		2003	0313		CA 2	002-	2458	684		- 2	20020	829
EP	1423	391			Al		2004	0602		EP 2	002-	7975	53		- 2	0020	829
EP	1423	391			B1		2006	0517									
	R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,
		IE.	SI.	LT.	LV,	FI,	RO,	MK,	CY,	AL,	TR,	BG,	CZ,	EΕ,	SK		
BR	2002 1549 2005 5313 3264 1423	0122	26		A		2004	0817		BR 2	002-	1222	6		- 2	20020	829
CN	1549	817		•	А		2004	1124		CN 2	002-	8168	40		- 2	20020	829
JP	2005	5026	83		T		2005	0127		JP 2	003-	5249	91		- 2	20020	829
NZ	5313	43			A		2006	0127		NZ 2	002-	5313	43		- 2	20020	829
AT	3264	69			T		2006	0615		AT 2	002-	7975	53		- 2	20020	829
PT	1423	391			T		2006	0929		PT 2	002-	7975	53		- 2	20020	829
ZA	2004	0010	42														
IN	2004	CNOO	444		А		2005	1223		IN 2	004-	CN44	4		- 7	20040	
	2004						2004	0319		NO 2	004-	1180			:	20040	
US	2005	0548	51		A1		2005	0310		US 2	004-	4877	60		- :	20041	
	APP									GB 2	001-	2103	3		A :	20010	830
										WA 2	002-	FD06	63			20020	829

OTHER SOURCE(S): MARPAT 138:221601

The invention provides pyrrolopyrimidinecarbonitriles and purinecarbonitriles (shown as 1; variables defined below; e.g.

Karen Cheng

ANSWER 3 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

ANSWER 4 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) 7-(2,2-dimethylpropyl)-6-[{4-(p-tolyl)piperazin-1-yl)methyl}-7h-pyrrolo(2,3-d)pyrimidine-2-carbonitrile) or a pharmaceutically acceptable salt or ester thereof, which are inhibitors of cathepsin K and find use pharmaceutically for treatment of diseases and medical titions

conditions
in which cathepsin K is implicated, e.g. various disorders including inflammation, rheumatoid arthritis, osteoarthritis, osteoporosis and tumors. 7-(2,2-Dimethylpropyl)-6-[(4-(p-tolyl)piperazin-1-yl)methyl]-7H-pyrrolo[2,3-d]pyrimidine-2-carbonitrile and 7-(2,2-dimethylpropyl)-6-[(2,4-

dioxo-1,3,8-triazaspiro[4.5]dec-8-yl]methyl]-7H-pyrrolo[2,3-d]pyrimidine-2-carbonitrile have IC50s for inhibition of human cathepsin K of 1 nM and 0.6 nM resp. For I? R is H, -RZ, -GRZ or NR182 [R] is H, lower alkyl or C3-C10 cycloalkyl; RZ is lower alkyl or NR182 [R] is H, lower alkyl or :C(2)- [2 is H, -C(0)-NR3R4, -NH-C(0)-R3, -CH2-NH-C(0)-R3, -C(0)-R3, -S(0)-R3, -S(0)-R

heterocyclyl or heterocyclyl-lower alkyl, or wherein K3 and w together with the N atom to which they are joined to form an N-heterocyclyl NP);

R5 is aryl, aryl-lower alkyl, aryloxy, aroyl or N-heterocyclyl. R13 is lower alkyl, C3-C10 cycloalkyl or C3-C10cycloalkyl-loyer alkyl; R14 is H or optionally aubstituted (aryl, aryl-w-, aryl-lower alkyl-w-, C3-C10 cycloalkyl, C3-C10 cycloalkyl-w-, N-heterocyclyl of N-heterocyclyl-w-, phthalimide, hydantoin, oxarolidinone, or 2,6-dioxopiperazine), wherein -W-is -O-, -C(O)-, -NH(R6)-C(O)-, -NH(R6)-C(O)-, -NH(R6)-C(O)-, -S(O)-, -S(O)2- or -S-; addnl. definitions are given in the claims. Ten example prepns. of I and intermediates are included and characterization data are given for >300 I. For example, the intermediate promomenthyl-7-neopentyl7H-pyrrolo(2,3-d]pyrimidine-2-carbonitrie was prepd. from starting from neopentylamine and 5-bromo-2,4-dichloropyrimidine via intermediates 5-bromo-2-chloro-4-[(neopentyl)amino]-5-[3-[(tetrahydro-2H-pyran-2-yl)oxylmethyl-7H-pyrrolo(2,3-d]pyrimidine-2-carbonitrile, and 6-hydroxymethyl-7-neopentyl-7H-pyrrolo(2,3-d)pyrimidine-2-carbonitrile. Its reaction with 2-chloro-5-hydroxypyridine in DMSO or DMF in the presence of K2CO3 gave 998 6-[(6-chloropyridin-3-y-loxy)methyl-7-neopentyl-7H-pyrrolo(2,3-d)pyrimidine-2-carbonitrile, 501[28-d1-2P, 7-(2,2-binephylpropyl)-6-((4,5-biocymory)din-3-y-loxymethyl)-7H-pyrrolo(2,3-d)pyrimidine-2-carbonitrile, 501(28-d1-2P, 7-(2,2-binephylpropyl)-6-((4,5-biocymory)din-3-y-lyl)methyl)-7H-pyrrolo(2,3-d)pyrimidine-2-carbonitrile, 501(28-d1-2P, 7-(2,2-binephylpropyl)-6-((4,5-biocymory)din-3-y-lyl)methyl)-7H-pyrrolo(2,3-d)pyrimidine-2-carbonitrile, 501(28-d1-2P, 7-(2,2-binephylpropyl)-6-((4,5-biocymory)din-3-y-lyl)methyl)-7H-pyrrolo(2,3-d)pyrimidine-2-carbonitrile, 501(28-d1-2P, 7-(2,2-binephylpropyl)-6-((4,5-biocymory)din-3-y-lyl)methyl)-7H-pyrrolo(2,3-d)pyrimidine-2-carbonitrile, 501(28-d1-2P, 7-(2,2-binephylpropyl)-6-((4,5-biocymory)din-3-y-lyl)methyl)-7H-pyrrolo(2,3-d)pyrimidine-2-carbonitrile, 501(28-d1-2P

carbonitrile RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (drug candidate; preparation of pyrrolopyrimidinecarbonitriles as

inhibitors
of cathepsin K with therapeutic uses)
RN 50128-41-2 CAPLUS
CN H-Imidazole-4,5-diazrboxamide, 1-[(2-cyano-7-(2,2-dimethylpropyl)-7H-pycrol(2,3-d)pycimidin-6-yl]methyl]- (SCI) (CA INDEX NAME)

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L9 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN / (Continued)
      Me3C-CH2
                                         NH2
REFERENCE COUNT:
                                       THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT
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L9 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2007 ACS ON STN
ACCESSION NUMBER: 1964:461686 CAPLUS
DOCUMENT NUMBER: 61:61686
ORIGINAL REFFERNCE NO.: 61:10688e-h
TITLE: CAPCOMMINE CAPTOM DE CAPTOM D ORIGINAL REFERENCE NO.: TITLE: PATENT ASSIGNEE(S): SOURCE: DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.
FR M2509
PRIORITY APPLN, INFO.: DATE APPLICATION NO. DATE 19640601 19630326

OTHER SOURCE(S):

R SOURCE(S): MARPAT 61:61686

For diagram(s), see printed CA Issue.
Synthesis of an antinflammatory, analgesic, and antipyretic agent of the general formula I, where R is H or iso-Pr, and X is H or Ac is described.
Thus, 13.1 g. =-aminocaproic acid is dissolved in 10°cc. concentrated HC1, 50 cc. acetone added, the mixture concentrated in vacuo, in the due taken

HCI, 50 cc. acetone added, the mixture concentrated in vacuo, in the residue taken up in 20 cc. acetone, and the solution boiled and added to 20 cc. dioxan while adding 10 cc. EtOH, then 50 cc. acetone and 20 cc. ether; the HCI salt precipitate overnight in the cold and m. 132*. The HCl salt [16 g.] is suspended in 100 cc. anhydrous CHCl3, 27 cc. SOC12 introduced slowly while cooling and agitating, the mixture heated and concentrated.

intraced in vacuo at 40°, the residual SOC12 eliminated by repeated concentration with anhydrous benzene, the amino acid chloride taken up in 50 cc.

with anhydrous benzene, the amino acid chloride taken up in 50 cc. anhydrous CHCl3, the solution added to 100 cc. CHCl3 containing 20.3 g. 4-aminoantipyrine, and 20.2 g. triethanolamine with cooling and agitation, the mixture heated, concentrated in vacuo, and washed 3 times with H2O, the CHCl3 phase dried over Na2SO4, 50 cc. anhydrous ether and 50 cc. heptane added, and the solution cooled overnight to give 18 g. N-antipyrinyl-s-aminocaproamide, m. 108-9'. The acetamido analog is prepared by first acetylating the amino acid then treating with SOCI2 and proceeding similarly to give N-antipyrinyl-sacetamidocaproamide, m. 148-50'. L.D.50 in mice is 3.85 g. administered intraperitoneally. Average daily dose is 0.5-1.5

1.5
q. in form of pills, suppositories, or injections.
880-90-0P, Imidazole-4,5-dicarboxamide, N,N',1-trimethylRL: PREP (Preparation)
(preparation of)
880-90-0 CAPLUS
1H-Imidazole-4,5-dicarboxamide, N,N',1-trimethyl- (9CI) (CA INDEX NAME)

L9 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1971:2483 CAPLUS
74:2483
TITLE: Effect of alkylamides of imidazole- and pyrazoledicarboxylic acids on water-salt metabolism
AUTHOR(S): Surce: S

ANSWER 6 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

L9 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1961:124800 CAPLUS
DOCUMENT NUMBER: 55:124800
ORIGINAL REFERENCE NO.: 55:23302d-e
DERIVATIVES of imidazoledicarboxylic acids. III.
Bis (methylamids) of
2-alkylimidazole-4,5-dicarboxylic
ACTHOR(S): Vinogradova, N. B.; Khromov-Borisov, N. V.
CORPORATE SOURCE: Inst. EXPLI. Med., Acad. Med. Sci., Noscow
SOURCE: CODEN: ZOKHA4: ISSN: 0044-460X
DOCUMENT TYPE: Journal Obshchel khimii (1961), 31, 1476-9
CODEN: ZOKHA4: ISSN: 0044-460X
DOCUMENT TYPE: Journal able
AB The following amides had a very weak sedative action.
2-Methyllmidazole-4,5-dicarboxylic acid esterified with MeOH-HCl, then
treated with aqueous NASCO3 gave Na salt of the unreacted acid as a
precipitate The filtrate treated with 20% aqueous MeNN2 rapidly gave 54%
2-methyllmidazole-4,5-dicarboxylic acid bis (methylamide), m.
225-6*. Similarly was prepared the 2-ethyl analog, m. 221-2*.
Esterification of 2-methylimidazole-4,5-dicarboxylic acid bis (methylamide), m.
191.52.5*.
11 16806-05-6P, Imidazole-4,5-dicarboxamide, N,N',1,2-tetramethylRL: PREP (Preparation)
(preparation of)
RN 16806-05-6P, Imidazole-4,5-dicarboxamide, N,N',1,2-tetramethylRR: PREP (Preparation)
(preparation of)
RN 16806-05-6C CAPLUS
NAME)

ANSWER 8 OF 10 CAPLUS COPYRIGHT 2007 ACS ON STN

3304-78-7 CAPLUS 1H-Imidazole-4,5-dicarboxamide, N,N'-dimethyl-1-propyl- (9CI) (CA INDEX

16806-02-3 CAPLUS
1H-Imidazole-4,5-dicarboxamide, N,N*-dimethyl-1-(phenylmethyl)- (9CI)

INDEX NAME)

16806-03-4 CAPLUS
1H-Imidazole-4,5-dicarboxamide, 1,1'-(1,2-ethanediyl)bis{N,N'-dimathyl-(9CI) (CA INDEX NAME)

ANSWER 8 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN ISSION NUMBER: 1961:124799 CAPLUS MEENT NUMBER: 55:124799 INAL REFERENCE NO.: 55:23502b-d

ACCESSION NUMBER:

DOCUMENT NUMBER:
ORIGINAL REFERENCE NO.:
TITLE:

Derivatives of imidazoledicarboxylic acids. II. Bis(methylamides) of

l-alkylimidazole-4,5-dicarboxylic
acids
AUTHOR(S): Vinogradova, N. B.; Khromov-Borisov, N. V.;
Kozhevnikov, S. P.; Livshits, I. M.
CORPORATE SOURCE: Inst. Exptl. Med., Acad. Med. Sci., Moscow
SourCE: Zhurnal Obshchet Khimi (1961), 31, 1471-6
CODEN: ZOKHA4; ISSN: 0044-460X

DOCUMENT TYPE:

DOCUMENT TYPE: Journal Lancuage: Unavailable
BB The following bisimethylamides) were sedatives for the central nervous system. Basic hydrolysis of di-Me imidazole-4,5-dicarboxylate gave the

system. Basic hydrolysis of di-Me imidazole-4,5-dicarboxylate gave the salt of mono-Me ester (cf. above abstract), does not m. 300°, which heated 0.5 hr. with 25h KOH gave the free acid, m. 288°. The mono-Me salt above was neutralized with HCl and the precipitated mono-Me ester treated with McOH-dry HCl to give 65h di-Me ester, m. 202-3°. Treatment of the di-Me ester in MeOH with MeONs followed by the desired alkyl halide and amine gave after refluxing 6 hrs.: 43.81 l-ethylimidazole-4,5-dicarboxylic acid bis/methylamide) m. 142-3°; 181 l-propyl analog, m. 86-7°; 31.351 l-allyl analog, m. 142-3°; 31.351 l-allyl analog, m. 31-3°; 201 l-benzyl analog, m. 10-11°. The di-Me ester above and (CM2Br)2-MeONs gave 8.78 1,2-bis(4,5-bis/methylcarbamoyl)-l-imidazolylethane, m. 255-7°. 64-99-29, Imidazole-4,5-dicarboxamide, l-ethyl-N,N'-dimethyl-304-78-7P, Imidazole-4,5-dicarboxamide, l-allyl-N,N'-dimethyl-1806-03-4P, Imidazole-4,5-dicarboxamide, l-allyl-N,N'-dimethyl-1806-03-4P, Imidazole-4,5-dicarboxamide, l-benzyl-N,N'-dimethyl-1806-03-4P, Imidazole-4,5-dicarboxamide, l-henzyl-N,N'-dimethyl-1606-03-4P, Imidazole-4,5-dicarboxamide, l-henzyl-N,N'-dimethyl-1606-03-4P, Imidazole-4,5-dicarboxamide, l,1'-ethylenebis[N,N'-dimethyl-1] miderial methyl-1-miderial methyl-1-

ISBUE-03-4P, Immdezole-4,5-dicarboxamide, 1,1-ethylenepis(N,N-dimethyl-RL: PREP (Preparation) (preparation of) 64-99-3 CAPLUS H-Imidazole-4,5-dicarboxamide, 1-ethyl-N,N'-dimethyl- (9CI) (CA INDEX

2642-69-5 CAPLUS
1H-Imidazole-4,5-dicarboxamide, N,N'-dimethyl-1-(2-propenyl)- (9CI) (CA
INDEX NAME). (CA

ANSWER 8 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

L9 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1960:7320 CAPLUS
DOCUMENT NUMBER: 54:7320
ORIGINAL REFERENCE NO.: 54:1550r-i
TITILE: 1-Etherified hydroxyalkyl 4,5dicasboxamides
INVENTOR(8): Leanza, Wm. J.
PATENT ASSIGNEE(5): Merck 6 Co., Inc.
DOCUMENT TYPE: Patent
LANGUAGE: NUMBER CARPET Leanza, Wm. J.

Leanza, Wm. J.

Merck & Co., Inc.

DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
PAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION: 1-Etherified hydroxyalkyl 4,5-imidazole DATE PATENT NO. KIND APPLICATION NO. DATE US 2897205 19590728 US 1958-744910 19580627
GI For diagram(s), see printed CA Issue.
AB Compds. ROCHR'N.CH:N.C!CONH2]:CCONH2 [I], were active against poultry coccidiosis: R' was H or lower alkyl and R was a hydrocarbon radical of less than 9 C atoms. AgN.CH:N.C(CO2Me):CCO2Me [II] in 100 ml. PhMe mixed with 3 ml. CH2ClOMe, the mixture refluxed 18 hrs., the precipitate filtered off,
and the filtrate evaporated to dryness gave the 1-MeOCH2 compound (III), sirup. sirup.
III dissolved in 50 ml. concentrated NH4OH and 20 ml. MeOH, the mixture III dissolved in 50 ml. concentrated movement and allowed to stand 24 hrs. at room temperature, the precipitate filtered off, and recrystd. (MeOH) and the filtered off, and sayou I. (R = Me, R' = H), m. 186-8°. II was prepared by adding 17 g. AgNO3 in 150 ml. H2O to 18.6 g. R''N.CH:N.C(CO2Me):CO2Me (IV) (R'' = H) (V) in 700 ml. 501 aqueous MeOH at 50°. adding dilute NH4OH until the mixture was slightly basic, digesting the resulting gel 90 min. at 50-60°, filtering off the granular II, washing with H2O and MeOH, and drying in vacuo. Ag salts of the Et, Pr. and Bu ester homologs were prepared similarly. The following I were prepared (R'' in IV, IT (CA INDEX NAME) ANSWER 9 OF 10 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued) CH2-0-CH2-PI

L9 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

MeO-CH2
C-NH2

L9 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1955:32454
ORIGINAL REFERENCE NO.: 53:34701,9471a-b
SITILE:

CHE

AUTHOR(S):
CAPCORPORATE SOURCE:
SOURCE:

COMPORATE SOURCE:

LINST Exptl. Med., Acad. Med. Sci. U.S.S.R., Moscow
Vestnik Akademii Mediteinskikh Nauk SSSR (1959),
14(No. 1), 14-19

CODEN: VANNAQ: ISSN: 0002-3027

DOCUMENT TYPE:
JOURNAL
LANGUAGE:

Unavailable
AB Under study were bis(methylamide) of 1-methyl-4,5-imidazoledicarboxylic
acid (IEM-168) and bis(methylamide) of 4,5-imidazoledicarboxylic acid
(IEM-163). The toxicity of the 2 compds. is slightly above that of
compds. of the caffeine (I) group. I and theophylline (II) were studied
simultaneously for control purposes. Results showed that IEM derivs.

WEIE

Characterized by a highly selective action on the central nervous system.
In some respects both derivs. acted like xanthine derivs. in that, like I
and II they affected corazole convulsions. However, the effect of the
Conditioned reflexes, was markedly different in white mice.

RN 880-90-0 CAPLUS

CN 1H-Imidazole-4,5-dicarboxamide, N,N',1-trimethyl- (9CI) (CA INDEX NAME)

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L9 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER:
DOCUMENT NUMBER:
140:175177
Hethods using 1,3-dialkyl-4,5-bis(N-methylcarbamoyl)imidazolium salts for promoting healing and reducing inflarmation
Sapronov, Nikolay Sergeevich: Piotrovsky, Levon Borisovich: Gavrovskya, Luidmila Konstantinovna
Biodiem Limited, Australia
CODEN: PIXXD2
DOCUMENT TYPE:
DOCUMENT TYPE:
DOCUMENT TYPE:
DOCUMENT TYPE:
DOCUMENT TYPE:
PIXENT PI
   DOCUMENT TYPE:
LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                                                                                                                                                                                                              APPLICATION NO
                          PATENT NO.
                                                                                                                        KIND
                                                                                                                                                     DATE
20030731
CA, CH, CN,
GD, GE, GH,
LC, LK, LR,
NO, NZ, OM,
TJ, TM, TN,
                                                                                                                                                                                                              WO 2003-AU972
                                                                                                                                                                                                                                                                                                          W 20030731
   OTHER SOURCE(s): MARPAT 140:175177

AB The invention discloses methods for promoting healing and reducing inflammation, and compns. therefore. In particular, the invention
                       inflammation, and compns. therefore. In particular, the invention tes
to the use of 1,3-dialky1-4,5-bis(N-methylcarbamoyl) imidazolium salts to
promote wound healing and to reduce inflammation. Novel compds. and
compns. are also provided. In one preferred embodiment, the invention
provides a method of treatment of myocardial infarction.
657349-34-3P 657349-34-2-3P
R1: ADV (Adverse effect, including toxicity): PAC (Pharmacological
activity): SPN (Synthetic preparation); TRU (Therapeutic use): BIOL
(Biological study): PREP (Preparation): USES (Uses)
(dialkyl-bis(N-methylcarbamoyl)imidazolium salts for promoting healing
and reducing inflammation)
657349-34-3 CAPLUS
1H-Imidazolium, 1,3-dimethyl-4,5-bis(methylamino)carbonyl)-,
                         ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN
                                                                                                                                                                                                                                                                                 (Continued)
    ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
                           CM 2
                           CRN 3198-32-1
CMF C6 H5 03 S
                              657349-38-7 CAPLUS
                           HH-Imidazolium, 1,3-diethyl-4,5-bis[(methylamino)carbonyl]-,
benzenesulfonate (9CI) (CA INDEX NAME)
                          .
СМ 1
                            CRN 657349-37-6
CMF C11 H19 N4 O2
    ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
                           CM 2
                            CRN 3198-32-1
CMF C6 H5 O3 S
                            657349-39-8 CAPLUS
1H-Imidazolium, 1-ethyl-3-methyl-4,5-bis[(methylamino)carbonyl]-,
```

ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN benzenesulfonate (9CI) (CA INDEX NAME) (Continued) CM 1 657349-33-2 C9 H15 N4 O2 ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE CM 2 3198-32-1 C6 H5 O3 S 657349-36-5 CAPLUS
1H-Imidazolium, 1-ethyl-3-methyl-4,5-bis{(methylamino)carbonyl}-,
benzenesulfonate (9CI) (CA INDEX NAME) CM 1 CRN 657349-35-4 CMF C10 H17 N4 O2 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN CM 1 ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE RN 657349-42-3 CAPLUS CN 1H-Imidazolium, 1-ethyl-3-methyl-4,5-bis[(methylamino)carbonyl]-, chloride (SCI) (CA INDEX NAME)

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE IT 657349-40-1P 657349-41-2P RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES

• c1

benzoate (9CI) (CA INDEX NAME)

L9 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
(Uses)
(dialkyl-bis(N-methylcarbamoyl)imidazolium salts for promoting healing
and reducing inflammation)
RN 657349-40-1 CAPLUS
CN IH-Imidazolium, 1-ethyl-3-methyl-4,5-bis(methylamino)carbonyl)-, salt
with 2-hydroxybenzoic acid (1:1) (9CI) (CA INDEX NAME)

CRN 657349-35-4 CMF C10 H17 N4 O2

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

CM 2 CRN 63-36-5 CMF C7 H5 03

RN 657349-41-2 CAPLUS
CN 1H-Imidazolium, 1-ethyl-3-methyl-4,5-bis[(methylamino)carbonyl]-, salt with 2,5-dihydroxybenzoic acid (1:1) (9CI) (CA INDEX NAME)

CRN 657349-35-4 CMF C10 H17 N4 O2 L9 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

CM 2 CRN 490-80-2 CMF C7 H5 O4

L3 ANSWER 1 OF 291 CAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION NUMBER: 2006:333039 CAPLUS DOCUMENT NUMBER: TITLE: 144:324866 144:324866 Taboo method for treating patients for behavior disease - dependency Chumachenko, A. A.; Erichev, A. N. INVENTOR(S): PATENT ASSIGNEE(S): SOURCE: Russia Russ., 10 pp. CODEN: RUXXE7 DOCUMENT TYPE: Russian FAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT NO. KIND DATE APPLICATION NO. RU 2004-124911 RU 2004-124911 RU 2273498 Cl 20060410 PRIORITY APPLN. INFO .: Method for the treatment of behavior disease - dependency is disclosed. Method involves psychol. correction, administration of ethymisol at the dose of 10-60 mg. Emotional stress treatment is applied using individually selected video stream and acoustic accompaniment rronized with the video stream. Pure tones are sent to stereo headphones. Tones of 200, 248, 400 Hz are supplied to the right side and 204, 252, 417 Hz the left side. Pink noise, musical noise and speech meeting the video scale conditions are supplied to both headphones. A patient liatens to record of individually mounted audio stream in the morning and in the evening at the paychol. support stage. The audio stream to be shown 3-10 min long in the morning contains pure tones sent into the stereo headphones. Tones of 200, 248, 400 Hz are supplied to the right side and 210, 258, 417 Hz to the left side. The audio stream to be shown 20-45 long in the evening contains pure tones sent into the stereo headphones. Tones of 200, 248, 400 Hz are supplied to the right side and 204, 255, Hz to the left side. Pink noise, music and speech are supplied to the right and left headphones. Both audio streams contain individually selected music and text recorded from patient voice. Their substance varying from forbidding to encouraging sense is modified once a month. Method enables to widen range of the arsenal in therapy of behavior disease - dependency. 64-99-3, Ethymisol RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (taboo method for treating patients for behavior disease - dependency) 64-99-3 CAPLUS 1H-Imidazole-4,5-dicarboxamide, 1-ethyl-N,N'-dimethyl- (9CI) (CA INDEX NAME) 417

L3 ANSWER 2 OF 291 CAPLUS COPYRIGHT 2007 ACS ON STN

ACCESSION NUMBER: 2005:409524 CAPLUS

142:463438

Freparation of phenylamine substituted bicyclic heterocyclic compounds useful as kinase inhibitors

Das, Jagabandhu; Hynes, John, Leftheris, Katerins;
Lin, Shuqun; Wrobleski, Stephen T.; Wu, Hong

Bristol-Hyers Squibb Company, USA

POT Int. Appl., 113 pp.

CODEN: PIXND2

PATENT ACC. NUM. COUNT: PATENT TORORATION:

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

PATENT NO. KIND DATE APPLICATION NO. DATE

PATENT NO. KIND DATE APPLICATION NO. DATE

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, GE, ES, FI, GB, GD,
GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
NC, O, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, EG, EG, EG, EG, ET, FI, GB, GD,
AZ, BY, MR, MR, MM, MD, MG, MK, MM, MM, MC, MZ, AN, IN,
NO, NZ, ON, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
RW: BW, GH, GM, KE, LS, MM, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
AZ, BY, KG, KZ, ND, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,
SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GM, ML, MR, NE, BS,
TD, TD, TG

US 2005143398

PRIORITY APPLM. INFO:

OTHER SOURCE(S): MARPAT 142:463438

L3 ANSWER 1 OF 291 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)

ANSWER 2 OF 291 CAPLUS COPYRIGHT 2007 ACS on STN

L3 ANSWER 2 OF 291 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

REFERENCE COUNT:

THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

ANSWER 3 OF 291 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) hybridization. Bases corresponding to polymorphic sites within the

hybridization. Bases corresponding to polymorphic sites within the best did not be seen to the property of the seen that the complementary site on the primer. After amplification, the probes are hybridized with the amplification products and the fluorescence of the reporter groups released from the quencher by hybridization is detd. Melting curve anal. can be used to identify other polymorphisms affecting stability of the hybrid.

849765-34-4D, oligonucleotides containing RL: ARU (Analytical role, unclassified); ANST (Analytical study)

(as universal base analog; single nucleotide polymorphism genotyping using minor groove-binding probes, FRET and melting curve anal.)

849765-34-4 CAPLUS
D-glycero-Penticol, 5-[4,5-bis(aminocarbonyl)-1H-imidazol-1-yl]-4,5-dideoxy-2-O-methyl-, (32)- (9CI) (CA INDEX NAME)

Absolute stereochemistry

L3 ANSWER 3 OF 291 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:347024 CAPLUS
DOCUMENT NUMBER: 142:387164
Single nucleotide polymorphism genotyping using minor groove-binding probes, FRET and melting curve

Belousov, Yevgeniy S.; Dempcy, Robert O. Epoch Biosciences, Inc., USA; Lokhov, Sergey G.; Vorobiev, Alexei PCT Int. Appl., 82 pp. CODEN: PIXXD2 Patent English analysis

INVENTOR (S): PATENT ASSIGNEE (S):

SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

	TENT									APPL							
WO	2005	0355	45		A2		2005	0421	1	WO 2	004-1	US 32	265		2	0040	930
WO	2005																
	W:	AE,	AG,	AL,	AM,	AT,	ΑU,	ΑZ,	BA,	BB,	BG,	BR,	BW,	BY,	ΒZ,	CA,	CH,
		CN,	co,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,
		GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	ıs,	JP,	ΚE,	KG,	KP,	KR,	ΚZ,	LC,
		LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MΧ,	ΜZ,	NA,	NI,
		NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,
		TJ.	TM.	TN.	TR.	TT.	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW
	RW:	BW.	GH.	GM.	KE.	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,
		AZ.	BY.	KG.	KZ.	MD.	RU,	TJ,	TM,	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,
							GR,										
							CF,										
		SN.	TD.	TG				-									
บร	2005				A1		2005	0602		US 2	004-	9549	55		2	0040	929
	2004						2005			AU 2							
	2540						2005	0421		CA 2	004-	2540	551		2	0040	930
	1670																
٠.		AT.															
	•••						RO,										
		,	,	,	,		,		,	,	• • • •		,			,	

HR PRIORITY APPLN. INFO.: US 2003-508792P P 20031002

Methods and probes are provided for the anal. of target sequences having two or more polymorphisms wherein one of the polymorphisms is to be distinguished and another polymorphism is to be masked. Methods of

rmining several single nucleotide polymorphisms (SNPs) in a single sequence are described. The method allows the detection of one SNP in a sample by a given primer/probe combination while others are not detected by this combination, but are detected by others. The method uses primers and probes including a minor groove-binding ligand, a fluorescent reporter, and a quencher moiety. Primers and probes may be designed using MOB Eclipse Design Software. The use of the minor groove binding moiety minimizes false positives. The primer and probe may also have a modified backbone and may include base analogs with greater or weaker stringency

ANSWER 4 OF 291 CAPLUS COPYRIGHT 2007 ACS on STN SSION NUMBER: 2005:261484 CAPLUS

ACCESSION NUMBER:

2005:261484 CAPLUS
144:88209
Synthesis of diastereomeric 1,4-diphosphine ligands
bearing imidazolidin-2-one backbone and their
application in Rh(1)-catelyzed asymmetric
hydrogenation of functionalized olefins
Zhang, Yong Jian; Kim, Kee Yong; Park, Jung Hwan;
Song, Choong Eui; Lee, Kyungae; Lah, Myoung Soo; Lee,
Sang-qi DOCUMENT NUMBER: TITLE:

AUTHOR (S):

Sang-gi Life Sciences Division, Korea Institute of Science CORPORATE SOURCE:

Technology, Seoul, 130-650, S. Korea Advanced Synthesis & Catalysis (2005), 347(4),

SOURCE: 563-570 CODEN: ASCAF7; ISSN: 1615-4150 Wiley-VCH Verlag GmbH & Co. KGaA Journal

PUBLISHER:

DOCUMENT TYPE: LANGUAGE:

English CASREACT 144:88209 OTHER SOURCE (S):

The disastereomeric 1,4-diphosphine ligands, (S,S,S,S)-I, (R,S,S,R)-I and (R,S,S,S)-I, with the imidazolidin-2-one backbone were synthesized, and utilized for an investigation of the effects of backbone chirality on the enantioselectivity in the RRI(I)-catalyzed hydrogenation of various functionalized olefinic substrates. It was found that the catalytic efficiencies are largely dependent on the configurations of the α -carbons to phosphine. Thus, the RR complex of the pseudo-CZ-symdiphosphine, (R,S,S,S)-I, showed excellent enantioselectivities (93.0-98.61 ee) in the hydrogenations of a broad spectrum of substrates, and especially in the hydrogenations of Me α -(Na-cetyamino)- β -arylacrylates (95.3-97.03 ee). However, the enantioselectivities sined

obtained ined with the C2-sym. (R,S,S,R)-I were largely dependent on the substrate (19.8-97.3% ee). The Rh complex of (S,S,S,S)-I ligand showed the lowest catalytic efficiency for all of the substrates examined (0-84.8% ee). 872175-11-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREF (Preparation); RACT

Reactant or reagent)
(preparation of dissereomeric diphosphine ligands bearing imidazolidinone backbone as chiral ligands for Rh(I)-catalyzed asym. hydrogenation of functionalized olefins)
RN 872175-11-6 CAPLUS
CN 4,5-Imidazolidinedicarboxamide, N,N'-dimethoxy-N,N'-dimethyl-2-oxo-1,3-bis(phenylmethyl)-, (48,55)- (9CI) (CA INDEX NAME)

L3 ANSWER 4 OF 291 CAPLUS COPYRIGHT 2007 ACS on STN Absolute stereochemistry. Rotation (-). (Continued)

REFERENCE COUNT:

THERE ARE 26 CITED REFERENCES AVAILABLE FOR 26

RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

ANSWER 5 OF 291 CAPLUS COPYRIGHT 2007 ACS on STN

847448-25-3 CAPLUS 1H-Imidazole-4,5-dicarboxamide, 1-[1-(3,4-dichlorophenyl)propyl]-2,3-dihydro-N,N-dimethyl-2-thioxo- (9CI) (CA INDEX NAWE)

REFERENCE COUNT: THIS

THERE ARE 14 CITED REFERENCES AVAILABLE FOR

FORMAT

RECORD. ALL CITATIONS AVAILABLE IN THE RE

(Continued)

L3 ANSWER 5 OF 291 CAPLUS COPYRIGHT 2007 ACS ON STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
142:280123
2-Mercaptoimidazoles, a new class of potent CCR2
antagonists
AUTHOR(S):
Van Lommen, Guy: Doyon, Julien; Coesemans, Erwin;
Boeckx, Staf; Cools, Marina; Buntinx, Hicke; Hermans,
Bart; Van Wauwe, Jean
Inflammation Research, Johnson and Johnson
Pharmaceutical Research and Development, Beerse,
B-2140, Belg.
SOURCE:
Bioorganic & Medicinal Chemistry Letters (2005),
15(3), 497-500
CODEN: BMCLE8; ISSN: 0960-894X
DOCUMENT TYPE:
Journal DOCUMENT TYPE: Journal English CASREACT 142:280123 OTHER SOURCE(S):

17

The synthesis and SAR of a class of CCR2 antagonists based on a 2-mercaptoimidazole scaffold, e.g., I. The initial lead compound was optimized to the corresponding optical active 3,4-disubstituted analogs, which have IC50 values in the MCP-1 induced Ca-flux below 0.01 µM. 742108-40-3P 847448-25-3P RE: PAC (Pharmacological activity); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation) (CR2 antagonistic activity, and structure-activity relationship of mercaptoimidazoles using heterocyclization as the key atrol.

step)
742108-40-3 CAPLUS
1H-Imidazole-4,5-dicarboxamide, 1-[1-(3,4-dichlorophenyl)propyl]-2,3-dihydro-2-thioxo- (9CI) (CA INDEX NAME)

L3 ANSWER 6 OF 291 CAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION NUMBER: 2004:675729 CAPLUS DOCUMENT NUMBER: 141:207206

TITLE:

141:207206
Preparation of mercaptoimidazoles as CCR2 receptor antagonists for the treatment of inflammatory disease Van Lommen, Guy Rosalia Eugeen; Doyon, Julien Georges Pierre-Olivier; Van Wauwe, Jean Pierre Frans; Cools, Marina Lucie Louise; Coesemans, Erwin Janssen Pharmaceutica N.V., Belg. PCT Int. Appl., 64 pp. CODEN: PIXXD.
Patent INVENTOR (S):

PATENT ASSIGNEE (S):

DOCUMENT TYPE: LANGUAGE: English

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE PRIORITY APPLN. INFO.: WO 2003-EP301038

OTHER SOURCE(S): MARPAT 141:207206

Karen Cheng

L3 ANSWER 6 OF 291 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

The invention relates to mercaptoimidazoles of formula I, N-oxides, pharmaceutically acceptable addition salts, quaternary amines and AB

isomeric forms thereof, wherein R1 is H, (cyclo)alkyl, (hetero)aryl; R2

halo, alkyl(oxy/thio), polyhaloalkyl(oxy), cyano, aminocarbonyl, (di)(alkyl)amino, nitro, aryl(oxy); R3 and R4 are H, cyano, (hydroxy)alkyl, C(0)OR5, C(0)NR6aR6b, S(0)ZNR6aR6b, C(0)R7; R5 is a defined carbon or N-heterocyclic ester group; R6a, R6b is H, alkyl, (di)(alkyl)amino(alkyl), arylamino; or NR6aR6b is a N-heterocycle; R7 is H, alk(en/yn)yl, aryl, certain substituted alkyls; n is 1-5, atc., with some limitations. The compds have been synthesized as CCR2 receptor antagonists and found useful for the treatment and prevention of ases.

some limitations. The compds. have been synthesized as CCR2 receptor antagenists and found useful for the treatment and prevention of diseases, auch as inflammation, which are mediated through activation of the CCR2 receptor, particularly CCR2B receptor. The invention also relates to processes for preparing the compds. and pharmaceutical compms. comprising them. Thus, compound II was prepared from 1-(4-fluoro-3-(trifluoromethyl)phenyl)-1-propanone via oxime formation, reduction, N-alkylation with Me bromacetate, formylation and finally cyclocondensation with (CO2Me)2 and KSCN. The synthesized compds. showed inhibition of MCP-1 induced Ca-flux in human THP-1 cells with pICSO 5.6-8.2 (pICSO = -log ICSO).

17 42108-10-3P activates a composite of the composite of the proparation of the composite of

Absolute stereochemistry.

ANSWER 6 OF 291 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) 1H-Imidazole-4,5-dicarboxamide, 1-[1-(3,4-dichlorophenyl)propyl)-2,3-dihydro-2-thioxo- (9CI) (CA INDEX NAME)

ANSWER 6 OF 291 CAPLUS COPYRIGHT 2007 ACS on STN

742108-27-6 CAPLUS
1H-Imidazole-4, 5-dicarboxamide, 1-{1-(3,4-dichlorophenyl)butyl}-2,3-dihydro-N,*'-dimethyl-2-thioxo- (9CI) (CA INDEX NAME)

742108-28-7 CAPLUS
1H-Imidazole-4, 5-dicarboxamide, 1-[1-(3,4-dibromophenyl)propyl]-2,3-dihydro-2-thioxo-(9CI) (CA IMDEX NAME)

742108-40-3 CAPLUS

L3 ANSWER 7 OF 291 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
AITHCH:
EXHIBITION
CORPORATE SOURCE:
SOURCE:
SOURCE:
PAGE AT A CAPLUS
LITTOLS
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EXHIBITION
FOR A COPYRIGHT 2007 ACS on STN
ACCESSION ACCESSION ACCESSION ACCESSION
LITTOLS
Kafedra Farmakol., Petrozavod. Gos. Univ., Russia
Patologicheskaya Fiziologiya i Eksperimental'naya
Terapiya (2004), (2), 26-28
CODEN: PAFEAY; ISSN: 0031-2991

PUBLISHER:
JOURNAL TYPE:
J

LANGUAGE: Russian

UAGE: Russian
The aim of the study was assessment of ethimizol effects on fatigue of respiratory muscles and ventilatory disorders caused by inspiratory resistive load on respiration. Cat expts. showed that administration of ethimizol in inspiratory fatigue reestablishes total bioelec. activity of the inspiratory muscles and disphragmatic nerve, diminishes useful respiratory cycle and respiration rate. Thus, ethimizol in a 1 mg/kg

i.v. compensates inspiratory muscular fatigue via central mechanism of

IT

i.v. compensates inspiratory muscular fatigue via central mechanism of action.
64-99-3, Ethimizol
RL: DNA (Drug mechanism of action); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (ethimizol impact on fatigue of inspiratory muscles)
64-99-3 CAPIUS

1H-Imidazole-4,5-dicarboxamide, 1-ethyl-N,N'-dimethyl- (9CI) (CA INDEX

L3 ANSWER 8 OF 291 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:120833 CAPLUS

140:175177 Hethods using 1,3-dialkyl-4,5-bis(N-methylcarbamoyl); imidatolium salts for promoting healing and reducing inflammation

INVENTOR(S): Sapronov, Nikolay Sergeevich; Piotrovsky, Levon Borisovich; Gavrovskaya, Luidmila Konstantinovna Biodiem Limited, Australia PCT Int. Appl., 110 pp.

CODEN: PIXXOZ

PACTENT TYPE: Patent Language: English

FAMILU ACC. NUM. COUNT: 1

FAMILU ACC. NUM. COUNT: 1

PATENT INFORMATION: DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT NO. KIND DATE APPLICATION NO. DATE W 20030731 WO 2003-AU972 OTHER SOURCE(5): MARPAT 140:175177

AB The invention discloses methods for promoting healing and reducing inflammation, and compns. therefore. In particular, the invention relates

to the use of 1,3-dialkyl-4,5-bis(N-methylcarbamoyl)imidarolium salts to promote wound healing and to reduce inflammation. Novel compds. and compns. are also provided. In one preferred embodiment, the invention provides a method of treatment of myocardial infarction.

15 637349-34-3 637349-36-9 657349-36-7P

657349-39-9 657349-32-3P

RL: ADV (Adverse effect, including toxicity): PAC (Pharmacological activity): SPN (Synthetic preparation): THU (Therapeutic use): BIOL (Biological study): PREP (Preparation): USES (Uses)

(dialkyl-bis(N-methylcarbamoyl)imidazolium salts for promoting healing and reducing inflammation)

RN 657349-34-3 CAPLUS

CN 1H-Imidazolium, 1,3-dimethyl-4,5-bis((methylamino)carbonyl)-, L3 ANSWER 8 OF 291 CAPLUS COPYRIGHT 2007 ACS on STN ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE CM 2 CRN 3198-32-1 CMF C6 H5 O3 5 657349-38-7 CAPLUS
IH-Imidazolium, 1,3-diethyl-4,5-bis[(methylamino)carbonyl]-,
benzenesulfonate (9CI) (CA INDEX NAME) CH 1 CRN 657349-37-6 CMF C11 H19 N4 O2 ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE CM 2 CRN 3198-32-1 CMF C6 H5 O3 S 657349-39-8 CAPLUS
1H-Imidazolium, 1-ethyl-3-methyl-4,5-bis[(methylamino)carbonyl]-,
ate
(9CI) (CA INDEX NAME)

Karen Cheng

ANSWER B OF 291 CAPLUS COPYRIGHT 2007 ACS on STN benzenesulfonate (9CI) (CA INDEX NAME) (Continued) CM 1 CRN 657349-33-2 CMF C9 H15 N4 O2 ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE CM 2 CRN 3198-32-1 CMF C6 H5 O3 S î 657349-36-5 CAPLUS
1H-Imidazolium, 1-ethyl-3-methyl-4,5-bis[(methylamino)carbonyl]-,
benzenesulfonate (9CI) (CA INDEX NAME)

CRN 657349-35-4 CMF C10 H17 N4 O2

(Continued) ANSWER 8 OF 291 CAPLUS COPYRIGHT 2007 ACS on STN CM 1 CRN 657349-35-4 CMF C10 H17 N4 O2

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

CM 2 CRN 766-76-7 CMF C7 H5 O2

657349-42-3 CAPLUS 1H-Imidazolium, 1-ethyl-3-methyl-4,5-bis[(methylamino)carbonyl]-, (9CI) (CA INDEX NAME)

• c1-

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

1T 657349-40-1P 657349-41-2P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU

(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES

ANSWER 8 OF 291 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) (Uses)
(dialkyl-bis(N-methylcarbamoyl)imidazolium salts for promoting healing and reducing inflammation)
657349-40-1 CAPLUS

657349-40-1 CAPLUS
H-Imidazolium, 1-ethyl-3-methyl-4,5-bis[(methylamino)carbonyl)-, salt with 2-hydroxybenzoic acid (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 657349-35-4 CMF C10 H17 N4 O2

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

CH 2

CRN 63-36-5 CMF C7 H5 O3

657349-41-2 CMPLUS
IH-Imidazolum, 1-ethyl-3-methyl-4,5-bis[(methylamino)carbonyl]-, salt
with 2,5-dihydroxybenzoic acid (1:1) (9CI) (CA INDEX NAME)

CRN 657349-35-4 CMF C10 H17 N4 O2

ANSWER 8 OF 291 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

L3 ANSWER 8 OF 291 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

CM 2

64-99-3 880-90-0

RL: RCT (Reactant); RACT (Reactant or reagent)
(dialkyl-bis(N-methylcarbamoyl)imidazolium salts for promoting healing and reducing inflammation)
64-99-3 CAPLUS
1H-Imidazole-4,5-dicarboxamide, 1-ethyl-N,N'-dimethyl- (9CI) (CA INDEX NAME)

880-90-0 CAPLUS
1H-Imidazole-4,5-dicarboxamide, N,N',1-trimethyl- (9CI) (CA INDEX NAME)

L3 ANSWER 9 OF 291 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
139:128027
Method for the treatment of nonspecific ulcerative colitis
Chashkova, E. Yu.; Pak, V. E.; Grigor'ev, E. G.
Nauchnyl Tsentr Rekonstruktivnoi i Vosstanovitel'noi Khirurgii Vostochno-Sibirskogo Nauchnogo Tsentra SO RAPA, Russia
SOURCE:
RUSAC, NO PP. Given
CODEN: RUSACT
PAPILLY ACC. NUM. COUNT:
PATENT INFORMATION:

1 1
PATENT INFORMATION:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
RU 2200007	C2	20030310	RU 1999-104916	19990305
PRIORITY APPLN. INFO.:			RU 1999-104916	19990305

Method is disclosed for the treatment of nonspecific ulcerative colitis. Method involves administration of ethymizol at a daily dose of 0.3-0.8 g for 10-30 days after having determined in advance morning and evening

cortisol level and the value occurred to be lower than the physiol.

level. l. Method ensures the enhanced effectiveness of treatment; stable clin. remission; reduced drug consumption; avoided abstinence syndrome

remission; reduced drug consumption; avoided abstinence syndrome occurrence.
64-99-3
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (method for treatment of nonspecific ulcerative colitis)
64-99-3 CAPLUS
HH-Imidazole-4,5-dicarboxamide, 1-ethyl-N,N'-dimethyl- (9CI) (CA INDEX NAME)

L3 ANSWER 10 OF 291 CAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION NUMBER: 2003:202639 CAPLUS DOCUMENT NUMBER: 138:221601 DOCUMENTITLE: 138:221601
Preparation of pyrrolopyrimidinecarbonitriles as inhibitors of cathepsin K
Betschart, Claudia; Hayakawa, Kenji; Irie, Osamu; Sakaki, Junichi; Iwasaki, Genji; Lattmann, Rene; Missbach, Martin; Teno, Naoki Novartis A.-G., Switz.; Novartis Pharma G.m.b.H. PCT int. Appl., 207 pp.
CODEN: PIXXD2
Patent INVENTOR (S): PATENT ASSIGNEE(S): SOURCE: DOCUMENT TYPE: Patent English FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PA'	PENT	NO.			KIN	D	DATE			APPL	ICAT	ION	NO.		1	DATE		
WO	2003	0207	21		Al		2003	0313		WO 2	002-	EP96	63		- 7	20020	829	
	W:	ΑE,	AG,	AL,	AM,	AT,	ΑU,	AZ,	BA,	BB,	BG,	BR,	BY,	Βz,	CA,	CH,	CN,	
		co.	CR.	CU.	CZ.	DE.	DK.	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	,
		HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	KZ,	LC,	LK,	LT,	LU,	,
		LV.	MA.	MD.	MK.	MN.	MX.	NO.	NZ.	OM,	PH,	PL.	PT,	RO,	RU,	SE,	SG,	
		SI.	SK.	TJ.	TM.	TN.	TR.	TT.	UA.	US.	UZ,	VC,	VN,	YU,	ZA,	. ZW		
	RW:															IE,		
		LU.	MC.	NL.	PT.	SE.	SK.	TR										
CA	2458 1423	684			Al		2003	0313		CA 2	002-	2458	684		:	20020	829	
EP	1423	391			Al		2004	0602		EP 2	002-	7975	53		- :	20020	829	
EP	1423	391			B1		2006	0517										
	R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	, MC,	PT.	,
		TE.	ST.	LT.	LV.	FT.	RO.	MK.	CY.	AL.	TR.	BG.	CZ.	EE.	SK			
BR	2002 1549 2005	0122	26		A		2004	0817		BR 2	002-	1222	6		:	20020	829	
CN	1549	817			А		2004	1124		CN 2	002-	8168	40		:	20020	829	
JP	2005	5026	83		T		2005	0127		JP 2	003-	5249	91		:	20020	829	
NZ	5313	43			А		2006	0127		NZ 2	002-	5313	43			20020	829	
AT	3264	69			T		2006	0615		AT 2	002-	7975	53			20020	829	
PT	5313 3264 1423	391			T		2006	0929		PT 2	002-	7975	53		- 2	20020	829	
2.2	2004	0010	42		A		2004	1025		ZA 2	004-	1042			- 1	20040	209	
IN	2004	CN00	444		А		2005	1223		IN 2	004-	CN44	4		- 2	20040	301	
NO	2004	0011	80		А		2004	0319		NO 2	004-	1180				20040	319	
US	2005	0548	51		A1		2005	0310		US 2	004-	4877	60		- :	20041	014	
PRIORIT										GB 2	001-	2103	3		A i	20010	830	
										WO 2	002-	EP96	63		w :	20020	829	

OTHER SOURCE(5):

MARPAT 138:221601

ANSWER 10 OF 291 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
(Usea)
(drug candidate; prepn. of pyrrolopyrimidinecarbonitriles as
inhibitors
of cathepsin K with therapeutic uses)
RN 501128-41-2 CAPLUS
CN 1H-Inidazole-4,5-dicarboxamide, 1-[[2-cyano-7-[2,2-dimethylpropyl]-7Hpyrrolo[2,3-d]pyrimidin-6-yl]methyl]- (9CI) (CA INDEX NAME)

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

L3 ANSWER 10 OF 291 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

The invention provides pyrrolopyrimidinecarbonitriles and purinecarbonitriles (shown as I; variables defined below; e.g. 7-[2,2-dimethylpropyl]-6-[[4-(p-tolyl)plperazin-1-yl]methyl]-7H-pyrrolo[2,3-d]pyrimidine-2-carbonitrile) or a pharmaceutically acceptable salt or ester thereof, which are inhibitors of cathepsin K and find use pharmaceutically for treatment of diseases and medical conditions in

which cathepsin K is implicated, e.g. various disorders including inflammation, rheumatoid arthritis, osteoarthritis, osteoporosis and tumors.
7-(2,2-Dimethylpropyl)-6-[(4-(p-tolyl)piperazin-1-yl)methyl]-7H-pyrrolo(2,3-d)pyrimdin-2-carbonitrile and
7-(2,2-dimethylpropyl)-6-[(2,4-

7-(2,2-dimethylpropyl)-6-([2,4-dimethyl]-7H-pyrrolo[2,3-d]pyrimidine-2-carbonitrile have IC50s for inhibition of human cathepsin K of 1 nM and 0.6 nM resp. For I: R is H, -R2, -OR2 or NR1R2 (R1 is H, lower alkyl or C3-C10 cycloalkyl; R2 is lower alkyl or C3-C10 cycloalkyl). X is: N- or C(2)-(2 is H, -C(0)-NR3R4, -NH-C(0)-R3, -CH2-NH-C(0)-R3, -C(0)-R3, -S(0)-R3, -S

with the N atom to which they are joined to form an N-heterocyclyl group;
R5 is aryl, aryl-lower alkyl, aryloxy, aroyl or N-heterocyclyl). R13 is lower alkyl, C3-C10 cycloalkyl or C3-C10cycloalkyl-lower alkyl, R14 is H or optionally substituted (aryl, aryl-W-, aryl-lower alkyl-W-, C3-C10 cycloalkyl-W-, N-heterocyclyl or N-heterocyclyl-W-, phthalimide, hydantoin, oxazolidinone, or 2,6-dioxopiperazine), wherein -W- is -O-, -C(O)-, -NH(R6)-, -NH(R6)-C(O)-, -NH(R6)-C(O)-, -NH(R6)-C(O)-, -S(O)-, -S(O)-, or -S-1 addnl. definitions are given in the claims. Ten example prepns. of I and intermediates are included and characterization data are given for 300 I. For example, the intermediate
6-bromomethyl-7-neopentyl7H-pyrcolo[2,3-d]pyrimidine-2-carbonitrile was prepared from starting from

from

neopentylamine and 5-bromo-2,4-dichloropyrimidine via intermediates
5-bromo-2-chloro-4-(neopentyl)amino]pyrimidine, 5-bromo-2-cyano-4[(neopentyl)amino]pyrimidine, 2-cyano-4-[(neopentyl)amino]-5-[3[(tetrahydro-2H-pyran-2-yl)oxy]prop-1-ynyl)pyrimidine,
7-neopentyl-6-[([(tetrahydro-2H-pyran-2-yl)oxy]methyl]-7H-pyrrolo[2,3d]pyrimidine-2-carbonitrile, and 6-hydroxymethyl-7-neopentyl-7Hpyrrolo[2,3-d]pyrimidine-2-carbonitrile. Its reaction with
2-chloro-5-hydroxypyridine in DMSO or DMF in the presence of K2CO3 gave
991 6-[(6-chloropyridin-3-yloxy)methyl]-7-neopentyl-7H-pyrrolo[2,3d]pyrimidine-2-carbonitrile.
501128-41-21e, 7-(2,2-Dimethyl)ropyl)-6-((4,5bis(aminocarbonyl)imidazol-1-yl)methyl)-7H-pyrrolo[2,3-d]pyrimidine-2carbonitrile

carbonitrile RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU

L3 ANSWER 11 OF 291 CAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION NUMBER: 2002:833631 CAPLUS DOCUMENT NUMBER: 138:83413

DOCUMENT NUMBER: TITLE: Method for vestibulovegetative disorders prevention

humans under conditions causing motion sickness Grigor'ev, A. I.: Morukov, B. V.; Nichlporuk, I. A Gosudarstvennyi Nauchnyi Tsentr RF Institut Mediko-Biologicheskikh Problem RAN, Russia INVENTOR (S): PATENT ASSIGNEE (S):

SOURCE: Russ., No pp. given CODEN: RUXXE7

DOCUMENT TYPE: Patent Russian

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. APPLICATION NO. DATE KIND DATE

RU 2001-119299 RU 2001-119299 RU 2183118 PRIORITY APPLN. INFO.: 20020610 Cl

Method is disclosed for vestibulovegetative disorders prevention in

under conditions causing motion sickness (seasickness). Method involves per os administration of neuroleptic preparation before multidirectional linear, angular, precessional and Coriolis accelerations are applied. Prostaglandin synthesis inhibitor and ethymizol are administered in min. therapeutic doses combined with the neuroleptic preparation Method ensures the

improved general health state; increased attention concentration and response

speed. 64-99-3 IT

64-99-3
RL: ADV (Adverse effect, including toxicity); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (vestibulovegetative disorders prevention in humans under conditions causing motion sickness)
64-99-3 CAPLUS

1H-Imidazole-4,5-dicarboxamide, 1-ethyl-N,N'-dimethyl- (9CI) (CA INDEX

L3 ANSWER 12 OF 291 CAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 2002:610785 CAPLUS

DOCUMENT NUMBER: 138:180525

TITLE AUTHOR (S):

138:180525
HMG14 status in age-dependent ammesia in rats
Reichardt, B. A.; Kulikova, O. G.; Borisova, G. Yu.;
Alexandrova, I. Ya.; Sapronov, N. S.
Experimental Medicine of the Russian Academy Med.
Science, St. Petersburg, 197376, Russia
Rossiiskii Fiziologicheskii Zhurnal imeni I. M.
Sechenova (2002), 88(5), 612-618
CODEM: RFZSFY; ISSN: 1029-595X CORPORATE SOURCE: SOURCE .

PUBLISHER: TYPE: Journal LANGUAGE:

MENT TYPE: Journal JAGE: Russian IAGE: Russian IAGE: Russian III has been shown that a decrease in HMGs transcription factors phosphorylation by protein kinase CK2 may be the cause of a gene expression decline in cognitive disorders. Passive avoidance amnesia in old rats (24 mo) was accompanied by a decrease in synaptosomal protein synthesis and transcription in isolated nuclei of cortex, hippocampus,

striatum. A decrease in chromatin protein kinase CK2 activity and a significant decrease in RMG14 phosphorylation by CK2 was found in old rats. CK2 activity and a significant decrease in RMG14 phosphorylation

CK2 was found in old rats. CK2 selective activators, a 4-carbamoyl-5-N-methylcarbamoyl-1-ethyl-imidazole and 4,5-dicarbamoyl-1-ethyl-imidazole, produced the HMG14 phosphorylation and transcription activation in old rats. At the same time, synaptosomal protein synthesis activation and passive avoidance amnesia reduction were observed in old

. Thus, activation of CK2-HMG14 was accompanied by synaptic plasticity optimization. The data show a high therapeutic potential of activators

ΙŤ

CK2-HHG14. 61523-49-7 65275-59-8 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (HHG14 status in age-dependent amnesia in rats) 61523-49-7 CAPLUS 1H-Imidazole-4,5-dicarboxamide, 1-ethyl- (9CI) (CA INDEX NAME)

85275-59-8 CAPLUS
1H-Imidazole-4,5-dicarboxamide, 1-ethyl-N5-methyl- (9CI) (CA INDEX NAME)

L3 ANSWER 13 OF 291 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:38554 CAPLUS

136:194174

NNDA-independent long-term depression of synaptic transmission in the hippocampus: Mechanisms of induction and effects of nootropic drugs

AUTHOR(S): Abramets, I. I.; Kuznetsov, Yu. V.; Samoi'lovich, I.

ADTAMETS, I. I.; Kuznetsov, Yu. V.; Samoi'lovich, I.

M.

CORPORATE SOURCE:

Ministry of Public Health of Ukraine, Donetsk State
Medical University, Ukraine

Neurophysiology (Translation of Neirofiziologiya)
(2001), 33(2), 86-93
CODEN: NehWBI; ISSN: 0090-2977

PUBLISHER:

Kluwer Academic/Consultants Bureau

DOCUMENT TYPE:
Journal

AB In studies on transaversal slices of the rat dorsal hippocampus, we found
that low-frequency tetanic stimulation of the medial perforant pathway (2
s-1, 7.5 min) results in long-term depression (LTD) of field EPSP of
granular cells in the dentate gyrus. This synaptic plasticity phenomenon
was weakened by calmodulin, nitric oxide synthase, and protein kinase C
inhibitors, trifluoperazine (1 µM), N-nitro-larginine (5 µM), and
polymixin B (50µM), resp., but was enhanced by a nonselective inhibitor
of CAMP phosphodiesterases, 1-isobutyl-3-methylxanthine (100 µM), and a
calcineurin inhibitor, cyclosporth A (50 µM). The nootropic
suppressed,

suppressed,
in a dose-dependent manner, the induction and expression of the studied
form of LTD of synaptic transmission, but glycine did not. We assume

Ca2+- and protein kinase G-mediated increase in the activity of

dulin is the main link in the induction of this LTD form. Calmodulin, vi. synthase and adenylate cyclase, increases the activities of protein

kinase

C, a substrate of the latter, and inhibitor 1. Under the influence of piracetam, carbacetam, and etimizole, the calmodulin concentration in the cytoplasm of dendritic spines attains a level sufficient for activation

Ca2-/calmodulin-dependent protein kinase, which provides for the phosphorylation of AMPA receptors and interferes with the development of LTD of synaptic transmission.
64-99-3, Etimizole
RE: DNA (Druy mechanism of action); PAC (Pharmacological activity); BIOL (Biological study)
(neurochem. mechanisms of NNDA-independent long-term depression of synaptic transmission in hippocampus and the effects of nootropic drugs)
64-99-3 CAPLUS
HI-Imidazole-4,5-dicarboxamide, 1-ethyl-N,N'-dimethyl- (9CI) (CA INDEX NAME)

ANSWER 12 OF 291 CAPLUS COPYRIGHT 2007 ACS on STN

ANSWER 13 OF 291 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

REFERENCE COUNT:

THERE ARE 21 CITED REFERENCES AVAILABLE FOR

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 14 OF 291 CAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION NUMBER: 2001:661672 CAPLUS DOCUMENT NUMBER: 135:175386

135:175386
Ethymizoe application as anti-arrhythmia preparation for preventing ventricular extrasystole in myocardial ischemia patients
Shabrov, A. V.: D'yachuk, G. I.: Vinogradova, T. V.: Pochobut, L. V.: Andreeva, E. N.
Sankt-Peterburgskaya Gosudarstvennaya Meditsinskaya Akademiya, Russia Russ.. No Dr. oiven TITLE:

INVENTOR (S):

PATENT ASSIGNEE (S):

SOURCE: Russ., No pp. given CODEN: RUXXE7

DOCUMENT TYPE: Patent Russian

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

RU 2148999	C1 20000520 RU 1997-108900	19970528
CORITY APPLN. INFO.:	RU 1997-108900	19970528

The proposed method involves administration of ethymizol for improving chronotropic values without inhibiting atrioventricular and intraventricular conductivity Ethymizol application promotes the

ulsive capacity of the myocardium unlike other analog prepns. Comparative data on the effects of several other antiarrhythmic agents are also given. 64-99-3
RI: ADV (Adverse effect, including toxicity); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (ethymizol application as antiarrhythmic preparation for preventing ventricular extrasystole in myocardial ischemia patients) 64-99-3 CAPLUS

IH-Imidazole-4,5-dicarboxamide, 1-ethyl-N,N'-dimethyl- (9CI) (CA INDEX NAME)

ANSWER 15 OF 291 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

REFERENCE COUNT: THIS

THERE ARE 47 CITED REFERENCES AVAILABLE FOR

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 15 OF 291
ACCESSION NUMBER:
DOCUMENT NUMBER:
135:344666
Acyclic nucleoside/nucleotide analogues with an imidazole ring skeleton
Chen, Ruan-Ming: Hosmane, Ramachandra S.
Laboratory for Drug Design and Synthesia, Department of Chemistry & Biochemistry, University of Macyland, Baltimore, MD, 21250, USA
Nucleosides, Nucleotides & Nucleic Acids (2001), 20(8), 1599-1614
CODEN: NNNAFY; ISSN: 1525-7770
Marcel Dekker, Inc.
DOCUMENT TYPE:
Journal

PUBLISHER: DOCUMENT TYPE: LANGUAGE:

PUBLISHER: Marcel Dekker, Inc.

DOCUMENT TYPE: Journal

ABS Syntheses of a few acyclic nucleoside and acyclic nucleoside phosphonate

analogs containing an imidazole ring have been reported. These analogs

include Ne 1-(2-hydroxyethoxymethyl)imidazole-4,5-dicarboxylate,

4,5-dicarboxylat-1-(2-hydroxyethoxymethyl)imidazole-4,5-dicarboxylate,

4,5-dicarboxylate,

4,5-dicynon-1-(2-hydroxyethoxymethyl)imidazole, and Me

1-(2-phosphonomethoxyethyl)imidazole. Also reported are a few potential

prodruga of the above compds., including two acetyl deriva. and a di-Et

phosphonate ester. In addition, the corresponding benzyl-protected

precursors of 1-(2-hydroxyethoxymethyl)imidazole-4,5-dicarboxylate and

4,5-dicyano-1-(2-hydroxyethoxymethyl)imidazole-4,5-dicarboxylate and

4,5-dicyano-1-(2-hydroxyethoxymethyl)imidazole-4,0-dicarboxylate

acid, are reported. Another potential prodrug included in the list is

1-(2-acetoxyethyl)-4,5-dicyanoimidazole. The compds. were screened for

in

vitro antiviral activity against a wide variety of herpes and respiratory viruses. The most active compound was Me

1-(2-diethoxyphosphonylmethoxyethy
1)-4,5- imidazoledicarboxylate which exhibited an anti-measles virus activity with an ECSO of <2.5 µg/mL and an SI value of >176.

IT 371973-27-2P
RL: BAC (Biological activity)

RL: BAC (Biological activity or effector, except adverse); BSU

(Biological logical study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREF (Preparation) (preparation and antiviral activity of acyclic nucleoside/nucleotide

ogs
with an imidazole ring skeleton)
371973-27-2 CAPLUS
1H-Imidazole-4,5-dicarboxamide, 1-{(2-hydroxyethoxy)methyl]- (9CI) (CA
INDEX NAME)

L3 ANSWER 16 OF 291 CAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION NUMBER: 2001:498766 CAPLUS DOCUMENT NUMBER: 135:339147

Dependence of the antioxidant effect of imidazole derivatives on the concentration and the scheme of TITLE:

administration

administration
Pavlova, R. N.; Kuznetsova, O. A.; Dadali, V. A.;
Abyshev, A. Z.; Sokolova, E. A.
Dep. Biochemistry, Mechnikov State Medical Acad., St.
Petersburg, 195067, Russia
Eksperimental'naya i Klinicheskaya Farmakologiya
(2001), 64(3), 50-52
CODEN: EKFAE9; ISSN: 0869-2092
Izdatel'stvo Folium AUTHOR (S):

CORPORATE SOURCE:

SOURCE:

PUBLISHER: DOCUMENT TYPE:

LANGUAGE:

The exptl. study of the antioxidant properties of imidazole derivs.

evidence of a nonlinear dose-effect relationship as manifested by chemiluminescence in liposomes. In the in vivo expts., using a thiophenol

intoxication model, the antioxidant effect observed for a "large dose -

short

t
time" scheme was more favorable than that for a "small dose - long time"
administration schedule.
64-99-3, Etimizole
RI: ADV (Adverse effect, including toxicity); BAC (Biological activity or
effector, except adverse); BSU (Biological study, unclassified); THU
(Therapeutic use); BIOL (Biological study); USES (Uses)
(antioxidant effect of imidazole derivs. dependence on concentration

and

administration mode)
649-39-3 CAPLUS
1H-Imidazole-4,5-dicarboxamide, 1-ethyl-N,N'-dimethyl- (9CI) (CA INDEX

L3 ANSWER 17 OF 291 CAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION NUMBER: 2001:12413 CAPLUS DOCUMENT NUMBER: 134:71497

DOCUMENT NUMBER: TITLE:

144:7147/ Preparation of heterocyclic dicarboxylic acid diamide derivatives as agricultural and horticultural insecticides Katsuhira, Takeshi; Furuya, Takashi; Gotoh, Makoto; Tohnishi, Masanori; Takaishi, Hideo; Sakata,

INVENTOR (5):

Kazuyuki;

Morimoto, Masayuki; Seo, Akira Nihon Nohyaku Co., Ltd., Japan PCT Int. Appl., 160 pp. CODEN: PIXXD2 Patent PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE:

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO DATE 20000623 WO 2000-JP4136 20010104 WO 2001000575 A1 0005/5
AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CR, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, NN, MW, MX, MZ, NO, NZ, PI, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, 20000623 20000623 EP 1189745 B1 20061220 EP 2000-940823 20000623

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, CY

HU 200201555 A2 20020828 HU 2002-1555 20000623

JP 2001064258 A 20010313 JP 2000-191500 20006262

ZA 2001010006 A 20030205 ZA 2001-10006 20011205

US 6747041 B1 20040608 US 2002-18463 20020410

PRIORITY APPLN. INFO.:

WO 2000-JP4136 W 20000623

OTHER SOURCE(S):

MARPAT 134:71497

ANSWER 17 OF 291 CAPLUS COPYRIGHT 2007 ACS on STN

314763-16-1 CAPLUS
1H-Imidazole-4,5-dicarboxamide, 1-(difluoromethyl)-N4-(1-methylethyl)-N5[2-methyl-4-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl)phenyl]- (9CI)
(CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 22 CITED REFERENCES AVAILABLE FOR

RECORD. ALL CITATIONS AVAILABLE IN THE RE

ANSWER 17 OF 291 CAPLUS COPYRIGHT 2007 ACS ON STN

The title compds. I [R1, R2 and R3 represent each H, optionally halogenated C3-6 cycloalkyl, etc.; Het represents a 5- or 6-membered heterocycle: X and Y represent each halocyano, nitro, optionally halogenated C3-6 cycloalkyl, optionally substituted Ph, an optionally substituted heterocycle, etc; n is from 0 to 3; m is from 1 to 5; Z1 and Z2 represent each O or S; and B1 to B4 represent each C or N} are

22 represent each O or S; and B1 to B4 represent each C or N; ate ared
ared
I have an excellent controlling effect on peat insects such as
diamond-back moth (Plutella xylostella) and tobacco cutworm (Spodoptera
litura). The title compound II at 500 ppm gave ≥ 90% control of
Plutella Xylostella.
314763-15-0P 314763-16-1P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except
adverse); BSU (Biological atudy, unclassified); SPN (Synthetic
preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of heterocyclic dicarboxylic acid diamide derivs. as
agricultural and horticultural insecticides)
314763-15-0 CAPLUS
H1-Imidacole-4,5-dicarboxamide, 1-(difluoromethyl)-N5-(1-methylethyl)-N4[4-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]phenyl]- (9CI) (CA

NAME)

L3 ANSWER 18 OF 291
ACCESSION NUMBER:
DOCUMENT NUMBER:
133:261949
Accelerating labor with estrogens, amitriptyline, potassium orotate, and ethymisole
RASVERTENT ASSIGNEE(S):
TVerskoi Gosudarstvennyl Meditsinskii Institut,

Russia Russ. From: Izobreteniya 1998, (11), 161. CODEN: RUXXE7 SOURCE:

DOCUMENT TYPE: Patent

LANGUAGE: Russian

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
RU 2108756 PRIORITY APPLN. INFO.:	C1	19980420	RU 1994-30603 RU 1994-30603	19940817 19940817

AB Title only translated.
IT 64-99-3, Ethymisole
RI: BAC (Biological activity or effector, except adverse): BSU
(Biological

study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES

(Uses)

(accelerating labor with estrogens, amitriptyline, potassium orotate, and ethymisole) 64-99-3 CAPLUS

1H-Imidazole-4,5-dicarboxamide, 1-ethyl-N,N'-dimethyl- (9CI) (CA INDEX

L3 ANSWER 19 OF 291 CAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 1999:556594 CAPLUS COCUMENT NUMBER: 132:88130

DOCUMENT NUMBER: TITLE:

132:88130
Antifein derivatives protect embryos from chloridine-induced teratogenesis Bichevaya, N. K.; Chebotar', N. A.; Aleksandrova, I. Ya.; Stepanov, I. I.; Klement'ev, B. I.; Sapronov, N. AUTHOR (S):

Institute of Experimental Medicine, Russian Academy CORPORATE SOURCE:

SOURCE:

Medical Sciences, St. Petersburg, 197376, Russia Russian Journal of Developmental Biology (Translation of Ontogenez) (1999), 30(4), 259-263 CODEN: RJDBEZ; ISSN: 1062-3604 MAIK Nauka/Interperiodica Publishing

PUBLISHER: CUMENT TYPE:

MENT TYPE: Journal UAGE: English We studied the effect of propyl- and ethylnorantifein on chloridine-induced abnormalities of extremities in rat embryos. Chloridine (50 and 25 mg/kg, given through the gastric tube) was administered to rats on day 14 of pregnancy, and its embryotoxic effect was estimated from the state of fetuses and implantation sites on day 20

prenatal development. Propylnorantifein had fetoprotective properties both after i.p. (10 mg/kg) and after intraamniotic (6 and 0.06 µg) administration. Ethylnorantifein under similar conditions does not

change
the action of chloridine, and it prevents the appearance of developmental abnormalities only at the concentration of 0.06 µg/embryo. These data

discussed in connection with different effects of antifein derivs. on chromatin protein kinase, which phosphorylates HMG nonhistone proteins. 464-99-3, EthylnorAntifein 880-90-OD, Antifein, derivs. 3304-786-7.

RL: BAC (Biological activity or effector, except adverse); BSU

(Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); HSES

(Uses)

(antifein derivs. protect embryos from chloridine-induced teratogenesis)
64-99-3 CAPLUS
1H-Imidazole-4,5-dicarboxamide, 1-ethyl-N,N'-dimethyl- (9CI) (CA INDEX

CAPLUS COPYRIGHT 2007 ACS on STN 1999:503520 CAPLUS 131:307360 Neurochemical mechanisms of depotentiation of

L3 ANSWER 20 OF 291 ACCESSION NUMBER: DOCUMENT NUMBER: TITLE: Synapt

synaptic

transmission Abramets, I. I.; Samoilovich, I. M.; Kuznetsov, Yu. AUTHOR (S):

CORPORATE SOURCE:

Donetak. Gos. Med. Univ., MZ Ukr., Donetak, Ukraine
SOURCE:

Neirofiziologiya (1998), 30(2), 113-120

PUBLISHER:

Institut Fiziologii im. A. A. Bogomol'tsa NAN Ukrainy
DOCUMENT TYPE:

Journal

AB In expts. on slices of hippocampus it was ascertained the prolonged
low-frequency (1/s, 15 min) stimulation of Schaeffer collaterals at 45-60
min after their high-frequency stimulation (60/s, 0.5 s) caused a 66t
decrease in the amplitude of EPSP of pyramidal neurons of the CAI region
to the level preceding the high frequency stimulation. Depotentiation

practically completely prevented by blockade of NMDA receptors with ketamine, was weakened by blockade of the L-type calcium channel L-type with nifedipine, and was maintained during blockade of AMPA receptors

CNQX. Depotentiation also decreased under the effect of the calmodulin inhibitor trifluoroperazine or on increasing intracellular concns. of

camp caused by activation of A2 adenosine and D5 dopamine receptors. However, it was resistant to the effects of the PKC inhibitor polymyxin B. The nootropics with antiamnesic activity, piracetam, ethimizol, and carbacetam, intensified depotentiation of synaptic transmission.

IT 64-99-3, Ethimizol
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified): BIOL (Biological study)

logical
study, unclassified); BIOL (Biological study)
(neurochem. mechanisms of depotentiation of synaptic transmission)
64-99-3 CAPLUS
1H-lanidarole-4,5-dicarboxamide, 1-ethyl-N,N'-dimethyl- (9CI) (CA INDEX NAME)

L3 ANSWER 19 OF 291 CAPLUS COPYRIGHT 2007 ACS ON STN

880-90-0 CAPLUS 1H-Imidazole-4,5-dicarboxamide, N,N',1-trimethyl- (9CI) (CA INDEX NAME)

3304-78-7 CAPLUS
1H-Imidazole-4,5-dicarboxamide, N,N'-dimethyl-1-propyl- (9CI) (CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 18 CITED REFERENCES AVAILABLE FOR RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

Karen Cheng

+1,3 dialkyll
+5alts
+ imitigal on salts.

7

chain nodes :
6 7 8 9 10 11 14 15
ring nodes :
1 2 3 4 5
chain bonds :
1-15 2-7 3-6 4-14 6-10 6-11 7-8 7-9
ring bonds :
1-2 1-5 2-3 3-4 4-5
exact/norm bonds :
1-2 1-5 1-15 2-3 3-4 4-5 4-14 6-10 6-11 7-8 7-9
exact bonds :
2-7 3-6
isolated ring systems :

G1:H,Ak

containing 1 :

Match level:
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 9:CLASS 10:CLASS 11:CLASS 14:CLASS 15:CLASS

L4 STRUCTURE UPLOADED

=> d L4 HAS NO ANSWERS L4 STR

```
chain nodes :
6  7  8  9  10  11  14  15
ring nodes :
1  2  3  4  5
chain bonds :
1-15  2-7  3-6  4-14  6-10  6-11  7-8  7-9
ring bonds :
1-2  1-5  2-3  3-4  4-5
exact/norm bonds :
1-2  1-5  1-15  2-3  3-4  4-5  4-14  6-10  6-11  7-8  7-9
exact bonds :
2-7  3-6
isolated ring systems :
containing 1 :
```

G1:H,Ak

G2:Ak,C

Match level:
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 9:CLASS 10:CLASS 11:CLASS 14:CLASS 15:CLASS

L7 STRUCTURE UPLOADED

=> d L7 HAS NO ANSWERS L7 STR

L9 ANSWER 1 OF 4
ACCESSION NUMBER:
DOCUMENT NUMBER:
2005:261484 CAPLUS
144:89209
Synthesis of diastereomeric 1,4-diphosphine ligands
bearing imidazolidin-2-one backbone and their
application in Rh(1)-catalyzed asymmetric
hydrogenation of functionalized olefins
Zhang, Yong Jian; Kim, Kee Yong; Patk, Jung Hwan;
Song, Choong Eui; Lee, Kyungae; Lah, Myoung Soo; Lee,
Sang-qi Sang-gi Life Sciences Division, Korea Institute of Science

CORPORATE SOURCE:

SOURCE: 563-570

Technology, Seoul, 130-650, S. Korea Advanced Synthesis & Catalysis (2005), 347(4),

PUBLISHER:

CODEN: ASCAF7; ISSN: 1615-4150 Wiley-VCH Verlag GmbH & Co. KGaA Journal

DOCUMENT TYPE: LANGUAGE:

English

OTHER SOURCE(S): CASREACT 144:88209

AB The diastercomeric 1,4-diphosphine ligands, (S,S,S,S)-I, (R,S,S,R)-I and (R,S,S,S)-I, with the imidazolidin-2-one backbone were synthesized, and utilized for an investigation of the effects of backbone chirality on the enantioselectivity in the Rh(I)-catalyzed hydrogenation of various functionalized olefinic substrates. It was found that the catalytic efficiencies are largely dependent on the configurations of the catalytic efficiencies are largely dependent on the configurations of the catalytic efficiency en in the hydrogenation of the pseudo-C2-syn. diphosphine, (R,S,S,S)-I, showed excellent enantioselectivities (93.0-98.68 ee) in the hydrogenations of a broad spectrum of substrates, and especially in the hydrogenations of Me α-(N-acetyamino)-β-arylacrylates (95.3-97.08 ee). However, the enantioselectivities obtained with the C2-sym. (R,S,S,R)-I were largely dependent on the substrate (19.8-97.38 ee). The Rh complex of (S,S,S,S)-I ligand showed the lowest catalytic efficiency for all of the substrates examined (0-84.88 ee). If 872175-11-6P
RL: RCT (Reactant): SPN (Synthetic preparation): PREP (Preparation): RACT (Reactant or reagent) (preparation of diastereomeric diphosphine ligands bearing imidazolidione backbone as chiral ligands for Rh(I)-catalyzed asym. hydrogenation of functionalized olefins)

L9 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
142:280123
2-Mercaptolmidazoles, a new class of potent CCR2
antagonists
Van Lommen, Guy: Doyon, Julien; Coesemans, Erwin;
Boeckx, Staf; Cools, Marina; Buntinx, Micke; Hermans,
Bart: Van Mauwe, Jean
1nflammation Research, Johnson and Johnson
Pharmaceutical Research and Development, Beerse,
B-2340, Belg.
Bioorganic 4 Medicinal Chemistry Letters (2005),
15(3), 497-500
CODEN: BMCLE8; ISSN: 0960-894X
Elaevier B.V.
Journal
LANGUAGE: English
COSSPERT 142:280123

PUBLISHER: DOCUMENT TYPE: LANGUAGE: OTHER SOURCE(S):

English CASREACT 142:280123

IT

The synthesis and SAR of a class of CCR2 antagonists based on a 2-mercaptoimidatole scaffold, e.g., I. The initial lead compound was optimized to the corresponding optical active 3, 4-diaubatituted analogs, which have ICSO values in the MCP-1 induced Ca-flux below 0.01 µM. 742108-40-3P 847448-25-3P RL: PRC (Pharmacological activity); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation) (preparation, CCR2 antagonistic activity, and atructure-activity relationship of mercaptoimidazoles using heterocyclization as the key step) 742108-40-3 CAPLUS
1H-Imidazole-4,5-dicarboxamide, 1-[1-(3,4-dichlorophenyl)propyl)-2,3-dihydro-2-thioxo- (9CI) (CA INDEX NAME)

ANSWER 1 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) 872175-11-6 CAPLUS 4,5-Imidacolidinedicarboxamide, N,N'-dimethoxy-N,N'-dimethyl-2-oxo-1,3-bis(phenylmethyl)-, (43,5S)- {9CI} (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

REFERENCE COUNT: THIS

THERE ARE 26 CITED REFERENCES AVAILABLE FOR

RECORD. ALL CITATIONS AVAILABLE IN THE RE .

FORMAT

ANSWER 2 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

847448-25-3 CAPLUS 1H-Imidazole-4,5-dicarboxamide, 1-[1-(3,4-dichloropheny1)propy1]-2,3-dihydro-N,N-dimethyl-2-thioxo- (9CI) (CA INDEX NAME)

REFERENCE COUNT:

FORMAT

THERE ARE 14 CITED REFERENCES AVAILABLE FOR

RECORD. ALL CITATIONS AVAILABLE IN THE RE

L9 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION NUMBER: 2004:675729 CAPLUS DOCUMENT NUMBER: 141:207206 TITLE: Preparation of mercaptoimida 141:207206
Preparation of mercaptoimidazoles as CCR2 receptor antagonists for the treatment of inflammatory disease van Lommen, Guy Rosalia Eugeen: Deyon, Julien Georges Pierre-Olivier: Van Wauwe, Jean Plerre Frans; Cools, Marina Lucie Louise: Coesemans, Erwin Janssen Pharmaceutica N.V., Belg. PCT Int. Appl., 64 pp. CODEN: PIXXD2
Patent

1 INVENTOR (S):

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PAT	TENT :	NO.			KIN		DATE			APPL	ICAT	ION	NO.		D	ATE	
WO	2004	0698	09														
	W:						AU,										
							DK,										
							IN,										
							MD,										
							SD,										
							VN,					-					
	RW:						MZ,					UG,	ZM,	ZW,	AM,	AZ,	BY,
							TM.										
							IE,										
			CE		CT	~~	CB	CM	C0	CM	MI	M/D	ME	CN	TD	TC	
AU	2003	2155	49		Δī		2004	ORZO		A11 7	003~	2155	49		2	0030	203
ΑU	2004 2513	2100	71		Al		2004	0819		AU 2	004-	2100	71		2	0040	130
CA	2513	109			A1		2004	0819		CA 2	004-	2513	109		2	0040	130
WO	2004	0698	10		A1		2004	0819		WO 2	004-	EP95	7		2	0040	130
	W:	AE.	AG,	AL.	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,	CH,
		CN.	co.	CR.	CU,	CZ.	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,
		GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	15,	JP,	KE,	KG,	ΚP,	KR,	ΚZ,	LC,
		LK.	LR.	LS.	LT,	LU,	LV,	MA,	MD,	MG,	ΜK,	MN,	MW,	MX,	MZ,	NA,	NI
	RW:	BW.	GH.	GM.	KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AT,	ΒE,
							DK,										
		MC,	NL.	PT,	RO,	SE,	SI,	SK,	TR,	BF,	BJ,	CF,	CG,	CI,	CM,	GΑ,	GN,
		GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG								
EP	1592	670			Al		2005	1109		EP 2	004-	7066	74		2	0040	130
	R:	AT.	BE.	CH,	DE.	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,
		TE.	ST.	LT.	LV.	FI.	RO.	MK.	CY.	AL.	TR.	BG.	CZ.	EE.	HU.	sĸ	
CN	1745	069			A		2006	0308		CN 2	004-	8000	3283		2	0040	130
JP	2006	5165	89		T		2006	0706		JP 2	006-	5017	12		2	0040	130
US	2006	0582	89		Al		2006	0316		US 2	005-	5445	69		2	0050	803
ORIT	1745 2006 2006 Y APP	LN.	INFO	.:						WO 2	003-	EP10	38		A 2	0030	203

WO 2003-EP301038 A 20030203

WO 2004-EP957 A 20040130

OTHER SOURCE(S):

PRI

MARPAT 141:207206

ANSWER 3 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

742108-27-6 CAPLUS
1H-Imidazole-4,5-dicarboxamide, 1-[1-(3,4-dichlorophenyl)butyl]-2,3-dihydro-N,N'-dimethyl-2-thioxo- (9CI) (CA INDEX NAME)

742108-28-7 CAPLUS
1H-Imidazole-4, 5-dicarboxamide, 1-[1-(3,4-dibromophenyl)propyl]-2,3-dibydro-2-thioxo-(9CI) (CA INDEX NAME)

742108-40-3 CAPLUS 1H-Imidazole-4,3-dicarboxamide, 1-[1-(3,4-dichlorophenyl)propyl]-2,3-dihydro-2-thioxo- (9CI) (CA INDEX NAME)

Karen Cheng

ANSWER 3 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN

The invention relates to mercaptoimidazoles of formula I, N-oxides, pharmaceutically acceptable addition salts, quaternary amines and AB isomeric forms thereof, wherein R1 is H, (cyclo)alkyl, (hetero)aryl; R2

halo, alkyl(oxy/thio), polyhaloalkyl(oxy), cyano, aminocarbonyl, (di)(alkyl)amino, nitro, aryl(oxy); R3 and R4 are H, cyano, (hydroxy)alkyl, C(O)OR5, C(O)NR6aR6b, S(O)2NR6aR6b, C(O)R7; R5 is a defined carbon or N-heterocyclic ester group; R6a, R6b is H, alkyl, (di)(alkyl)amino(alkyl), arylamino; or NR6aR6b is a N-heterocycle; R7 is H, alk(en/yh)yl, aryl, certain substituted alkyls; n is 1-5, etc., with some limitations. The compds. have been synthesized as CCR2 receptor antagonists and found useful for the treatment and prevention of asses,

antagonists and found useful for the treatment and prevention of diseases, such as inflammation, which are mediated through activation of the CCR2 receptor, particularly CCR2B receptor. The invention also relates to processes for preparing the compds, and pharmaceutical compns. comprising them. Thus, compound II was prepared from 1-{4-fluoro-3-(trifluoromethyl)phenyl]-1-propanone via oxime formation, reduction, N-alkylation with Me bromoacetate, formylation and finally cyclocondensation with (COMP)2 and KSGN. The synthesized compds. showed inhibition of MCP-1 induced Ca-flux in human THP-1 cells with pIC50 5.6-8.2 (pIC50 = -log IC50).

IT 742108-15-2P 742108-27-6P 742108-28-7P 742108-40-3P RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES

(receptor antagonist; preparation of mercaptoimidazoles as CCR2 receptor

receptor

antagonists for the treatment of inflammatory disease)
RN 742108-15-2 CAPLUS
CN IH-Imidazole-4,5-dicarboxamide,
1-[(IR)-1-(3,4-dichlorophenyl)]propyl)-2,3dihydro-2-thioxo- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

ANSWER 3 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)